SANYO

FILE NO.

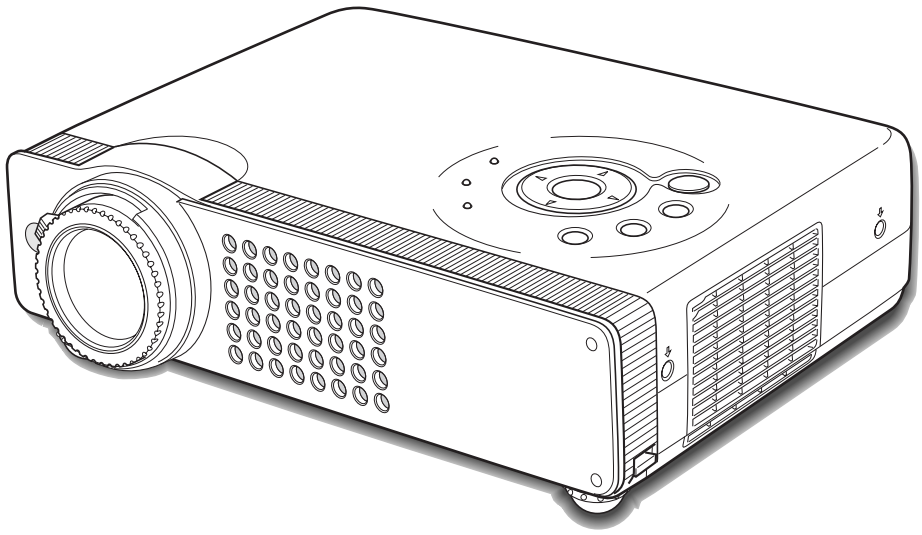
SERVICE MANUAL

Multimedia Projector

Model No. PLC-XU50
PLC-XU55

U.S.A., Canada,
Europe, Asia, Africa
U.K.

Original Version



Chassis No. MW3-XU5000
MT3-XU5500

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

PRODUCT CODE

PLC-XU50		PLC-XU55	
1 122 213 00	(MW3A)	**1 122 211 00**	(MT3A)
1 122 214 00	(PW3A)	**1 122 212 00**	(PT3A)
1 122 214 02	(PW3C)	**1 122 212 02**	(PT3C)

REFERENCE NO. SM5110516-00

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SAFETY PRECAUTIONS

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⚡) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

DO NOT ATTEMPT TO SERVICING THE <u>REMOTE CONTROL UNIT</u>.

Laser Beam may be leaked out when in disassemble the Unit. As the Laser Beam used in this Remote control unit is harmful to the eyes.

■ Specifications

Projector Type	Multi-media Projector
Dimensions (W x H x D)	11.73" x 2.8" x 8.58" (298mm x 71mm x 218mm) (not including raised portions)
Net Weight	6.2 lbs (2.8 kg)
LCD Panel System	0.8" TFT Active Matrix type, 3 panels
Panel Resolution	1024 x 768 dots
Number of Pixels	2,359,396 (1024 x 768 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz
Projection Image size (Diagonal)	Adjustable from 40” to 300”
Projection Lens	F 1.7 ~ 2.5 lens with f 20.0 mm ~ 30.0 mm with manual zoom and focus
Throw Distance	3.3’ ~ 25.3’ (1.0 m ~ 7.7 m)
Projection Lamp	200 W
Video Input Jacks	RCA Type x 1 (Video) and Mini DIN 4 pin x 1 (S-Video)
Audio Input Jacks	RCA Type x 2
Computer Input 1 Terminal	DVI-I Terminal (Digital/Analog) (HDCP compatible)
Computer Input 2 / Component Input / Monitor Output Terminal	(VGA) HDB 15 Terminal x 1 (switch to use this terminal)
Computer / Component Audio Input Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jack	Mini Jack (stereo) x 1 (variable with volume)
Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)
Feet Adjustment	0˚ to 11.8˚
Voltage and Power Consumption	AC 100 ~ 120 V (3.6 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada) AC 200 ~ 240 V (1.8 A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)
Operating Temperature	41 ˚F ~ 95 ˚F (5 ˚C ~ 35 ˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10 ˚C ~ 60 ˚C)
Remote Control	Power Source : AA, UM3 or R06 Type x 2 Operating Range : 16.4’ (5m) / ±30˚ Dimensions : 2.0” x 1.0” x 7.1” (50mm x 27mm x 181mm) Net Weight : 0.34 lbs (154 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 640~660nm)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

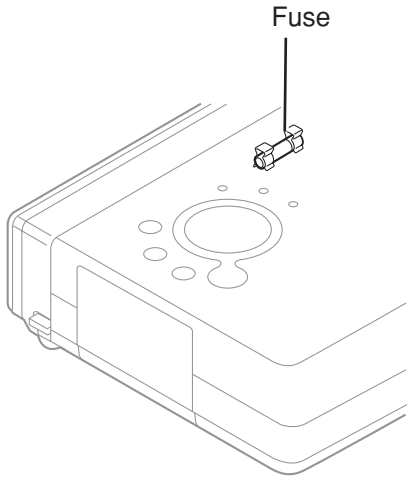
■ Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

● Fuse

A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No.: 423 021 7801
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3

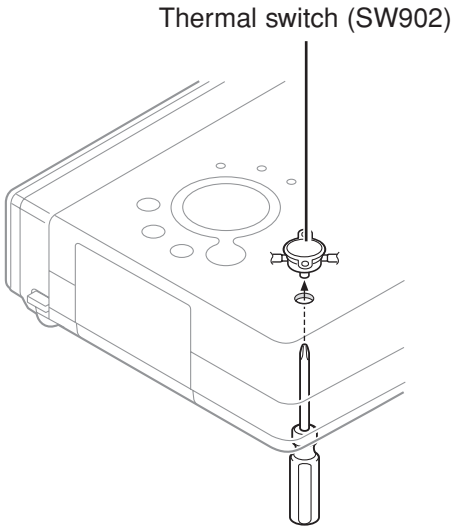


Fuse replacing steps

1. Remove the cabinet top and cabinet front following to "Mechanical Disassemblies".
2. Replace the new one with the specified type.

● Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 90˚C, it cuts off the AC main power supply .
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.



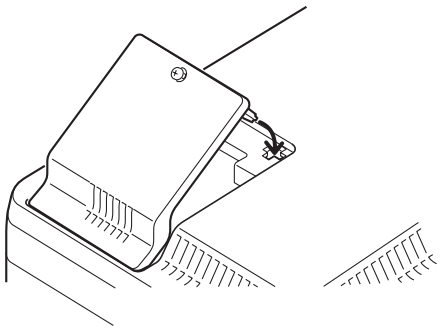
How to reset the thermal switch

1. Insert the sharp tool like a screwdriver into a hole on the cabinet bottom.
2. Press the reset button on the thermal switch with the screwdriver.

CAUTION:
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.

● Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



● Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

Possible causes

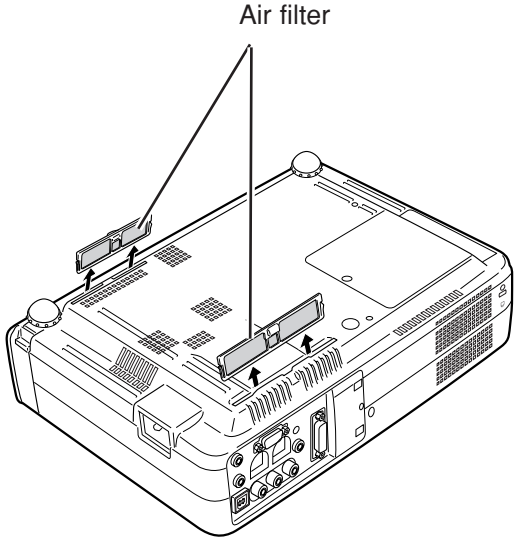
- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C or 41 to 95˚F)

Air filter care and cleaning

The removable air filter prevents dust from accumulation on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan’s effectiveness and may result in internal heat build up and reduce the life of the projector.

To clean up the air filters, follow the cleaning procedure below:

1. Turn the power off, and disconnect the AC power cord from the AC outlet.
2. Turn the projector up side down and remove air filters by pulling the latches of it upward.
3. Clean the air filters with brush or wash out the dust and particles.
4. Replace the air filters properly. Make sure that the air filters are fully inserted.



CAUTION:

Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality.
Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION

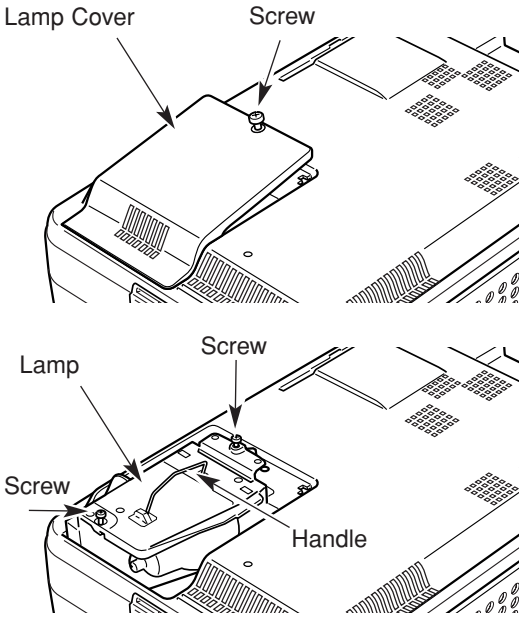
We recommend not to use the projector in dusty, smoky places. Using it in dusty place may cause the poor picture quality.
When using under the dusty or smoky conditions, dust may accumulate on the LCD panel and lens inside it, and may resultantly be projected on the screen together with the picture.
When the above symptoms are noticed, please clean up the LCD panel and lens following to the “Cleaning Method”.

■ Lamp Replacement

WARNING:
- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

ORDER REPLACEMENT LAMP

Type No.	Service Parts No.
POA-LMP55	610 309 2706



Procedure

1 Turn off the projector and disconnect the AC cord. Allow the projector to cool for at least 45 minutes.
2 Loosen 1 screws with a screwdriver and remove the lamp cover.
3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
5 Connect the AC cord to the projector and turn on.
6 **Reset the Lamp Replace Counter, see below explanation**.

Note:
- The projector cannot be turned-on with lamp cover removed, because when the lamp cover is removed, the lamp cover switch is also released to switch off the lamp circuit.

How to reset Lamp Replace Counter

1 Turn the projector on, press the **MENU** button and the On-Screen Menu will appear. Press the **Point Left/Right** button to move the red frame pointer to the Setting Menu icon.
2 Press the **Point Down** button to move the red frame pointer to the Lamp counter reset item and then press the **SELECT** button. The message "Lamp replace counter Reset?" is displayed. Move the pointer to [Yes] and then press the **SELECT** button.
3 Another confirmation dialog box appears and select [Yes] to reset the Lamp replace counter.

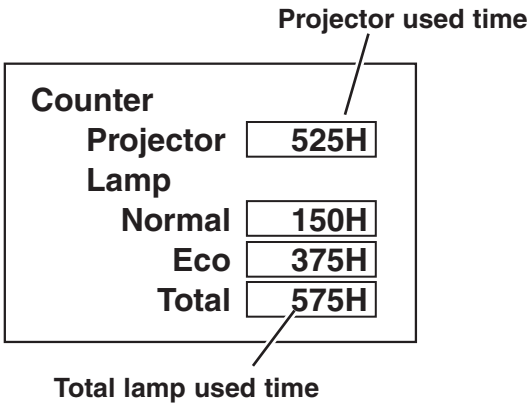
Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to "Air Filter Cleaning".

How to check Lamp used time

The LAMP REPLACE indicator will light yellow when the total lamp used time reaches 2000 hours. This is to indicate that lamp replacement is required.
The total lamp used time is calculated by using the below expression,
Total lamp used time = **T***eco* + **T***normal* (1+1/3)
T*eco*: used time in the Eco mode
T*normal* : used time in the Normal mode

You can check the lamp used time following to the below procedure.
1 Press and hold the **POWER ON-OFF** button on the projector for more than 20 seconds.
2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



■ Mechanical Disassemblies

Mechanical disassemble should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type

1 Cabinet Top, FN901 removal

1 Remove 5 screws **A** (M3x8) and pull the Cabinet Top upward off.
2 Loosen a hook **B**, disconnect terminal “K6J” on the Main Board and then pull the fan duct ass’y upward off.
3 Remove 2 screws **C** (T3x6) and remove fan “FN901”.

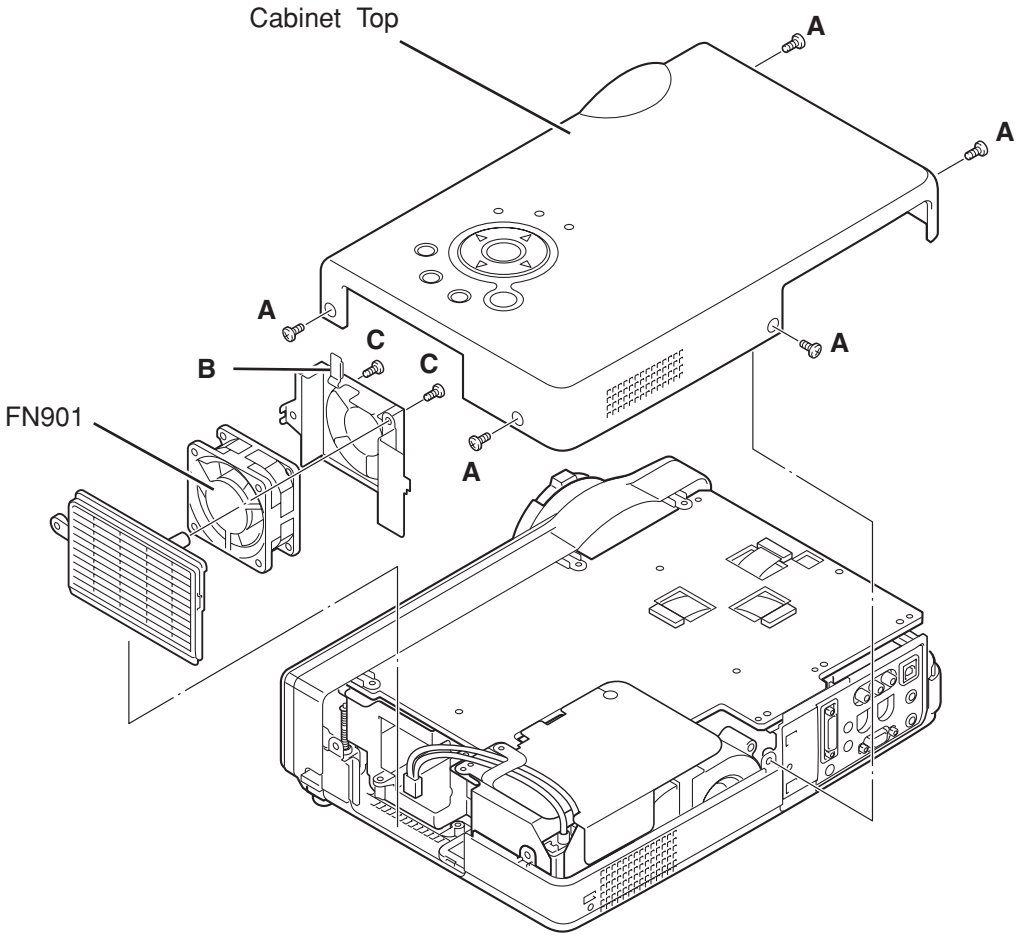


Fig.1

2 Cabinet Front, R/C Board, FN902 removal

1 Remove 2 screws **A** (M3x8), 3 screw **B** (M2.5x6) and disconnect terminal "K8D" on the Main Board.
2 Pull the Cabinet Front forward off and remove 1 screw **C** (T3x6) to take the R/C Board off.
3 Disconnect terminal "K8P" on the Main Board and remove fan "FN902".

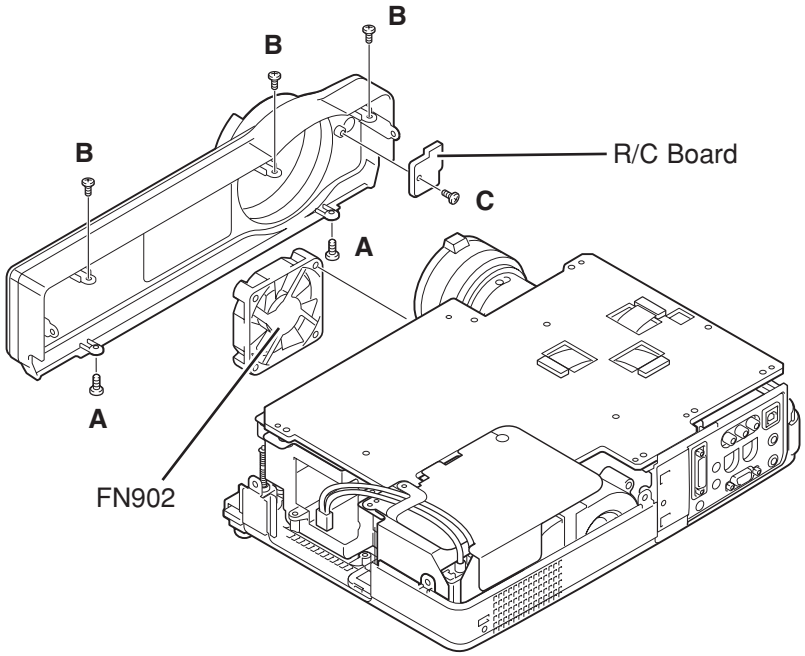


Fig.2

3 Main Board removal

1 Remove 7 screws **A** (M2.5x6) and 2 screws **B** (M2.5x6).
2 Remove a shield cover (black) and disconnect terminals "K8N", "K6L", K8H", "K8P", K5B", "K5G", "K5R", K6J", "K8R" and "K8S" on the Main Board.
3 Remove main board upward off.

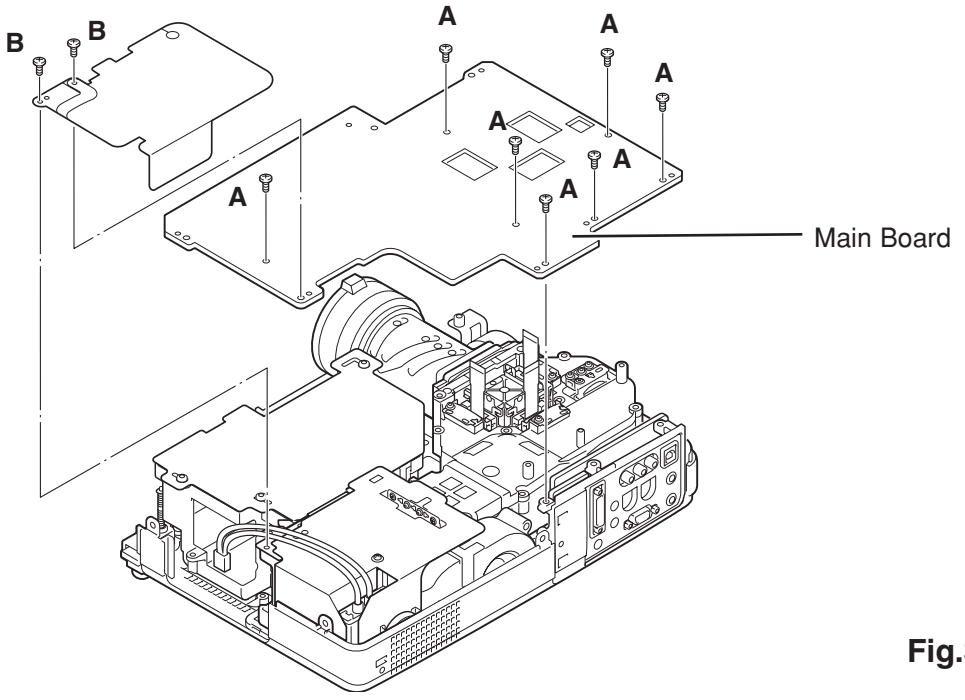


Fig.3

4 Speaker, AV and DVI Board removal

1 Pull the speaker “SP901” upward off from the speaker groove.
2 Remove each screw **A** (M4x6) to release grounding wires.
3 Pull the Rear Panel ass’y upward off.
4 Remove 4 screws **B** (T3x6) and remove the AV Board and remove 3 screws **C** (T3x6) and remove the DVI Board.

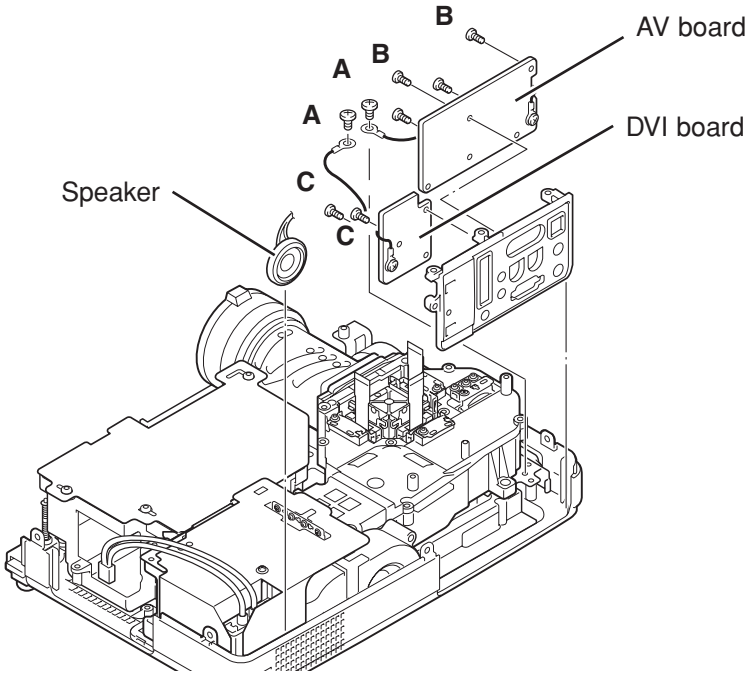


Fig.4

5 Optical Unit removal

1 Remove 6 screws **A** (T3x8) and disconnect terminal “K6A” on the lamp ballast board.
2 Pull the Optical Unit upward off from the cabinet bottom.

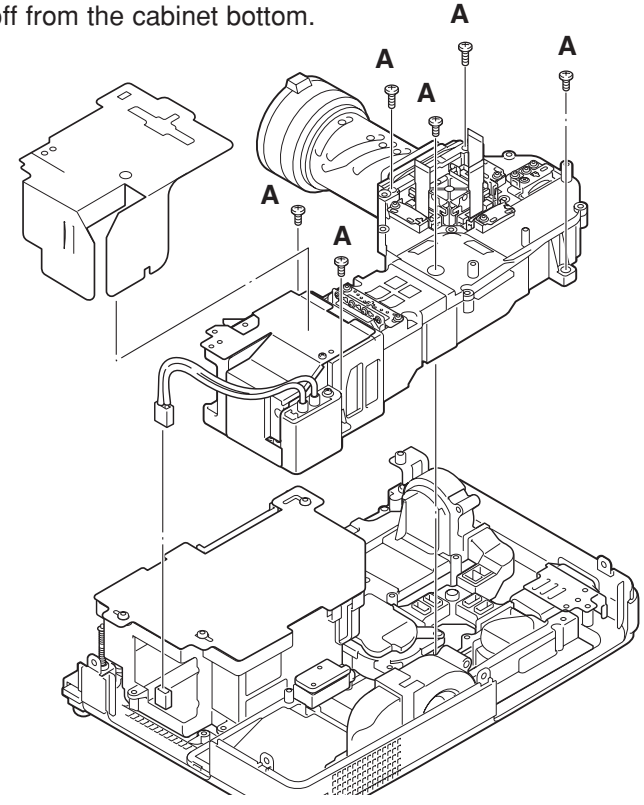


Fig.5

6 Power , Lamp Ballast, Lamp Cover SW Board removal

1 Remove the isolation plate on the power box.
2 Remove 4 screws **A** (T3x6) and disconnect terminals “K6A”, “K6B” and “K6D” then remove Power Board upward.
3 Remove 4 screws **B** (T3x6) and disconnect terminal "CB2” and remove the Lamp Ballast Board upward.
4 Remove 2 screws **C** (M2.5x6) and remove the Lamp Cover SW Board.
5 Remove 4 screws **D** (T3x8) and pull the power box bottom upward.

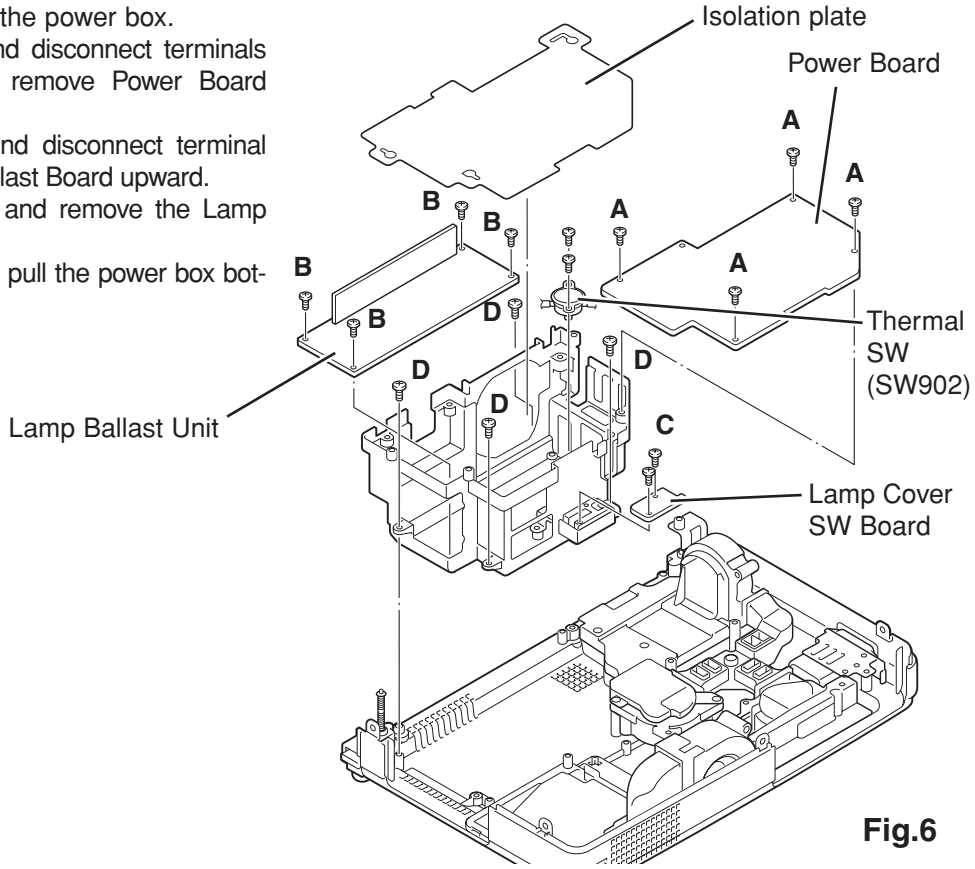


Fig.6

7 Fans removal

1 Remove 1 screw **A** (T3x8) and remove fan “FN903”.
2 Remove 4 screws **B** (T3x8) and 2 screws **C** (T3x10), and take the fan cover-A and fan “FN904”.
3 Remove 1 screw **D** (T3x8) and take the fan duct-A and fan “FN906”.
4 Remove 1 screw **E** (T3x8), 2 screws **F** (T3x10) and take the fan cover-B and fan “FN905”.

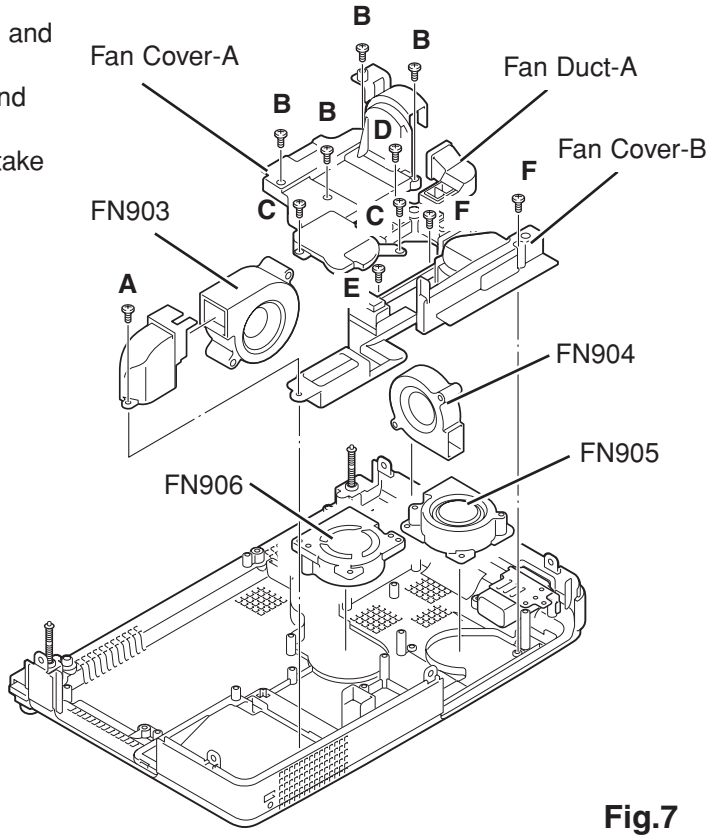


Fig.7

■ Optical Parts Disassemblies

Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the “Mechanical Disassemblies”.
Disassembly requires a 2.0mm hex wrench.

1 Projection Lens removal

1 Remove 4 screws (M2.5x8) and remove the Projection Lens.

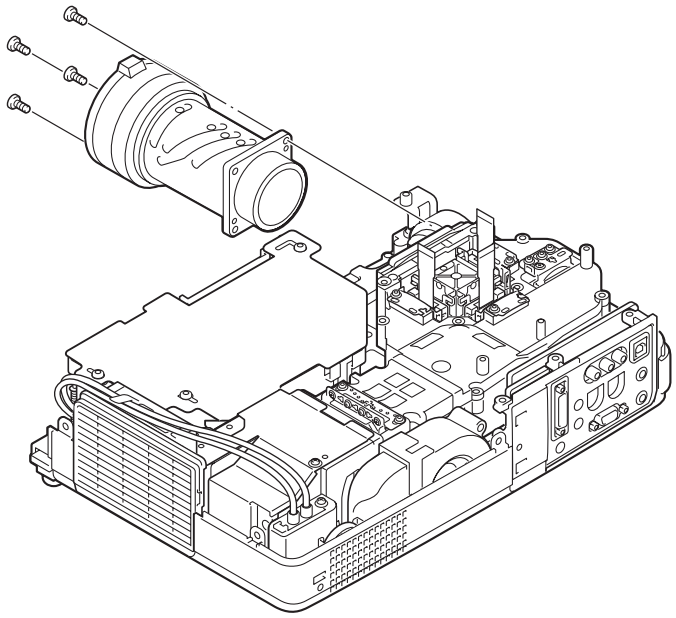


Fig.1

2 Integrator Lens-In disassembly

1 Remove 2 screws **A** (M2.5x5) and pull the Integrator Lens-In ass’y upward.
2 Unhook 4 stoppers **B** and then take the Lens off from the holder.

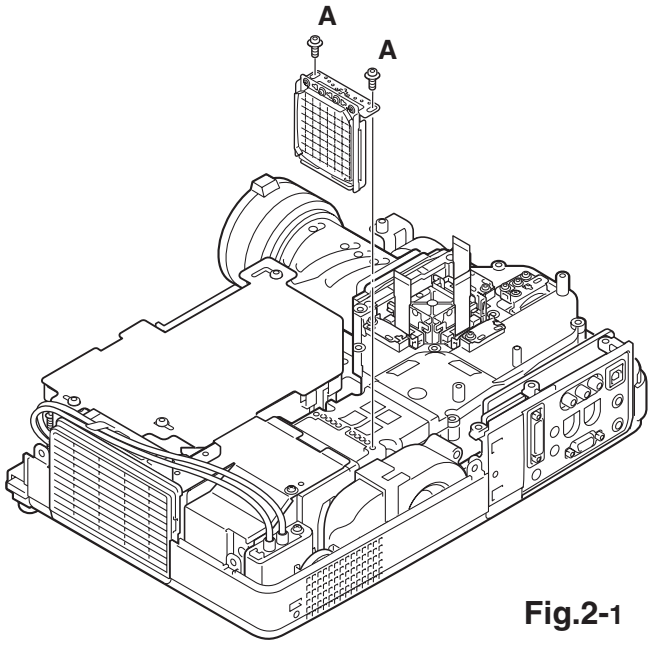
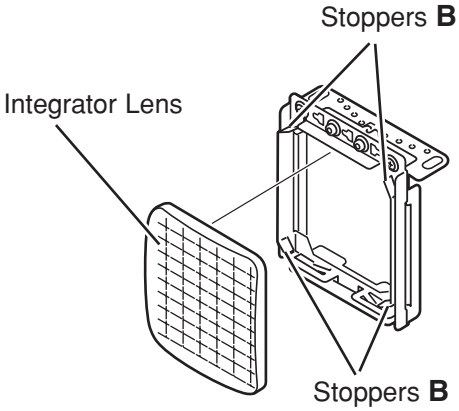


Fig.2-1



* Lens should be placed as the rugged surface side comes to the holder side.

Fig.2-2

3 Relay Lens-Out disassembly

1 Remove 2 screws **A** (M2.5x5) and pull the Relay Lens-Out ass'y upward.
2 Remove 2 screws **B** (M2x3) to take the Lens off from the holder.
Note:
There is no mounting direction of the lens.

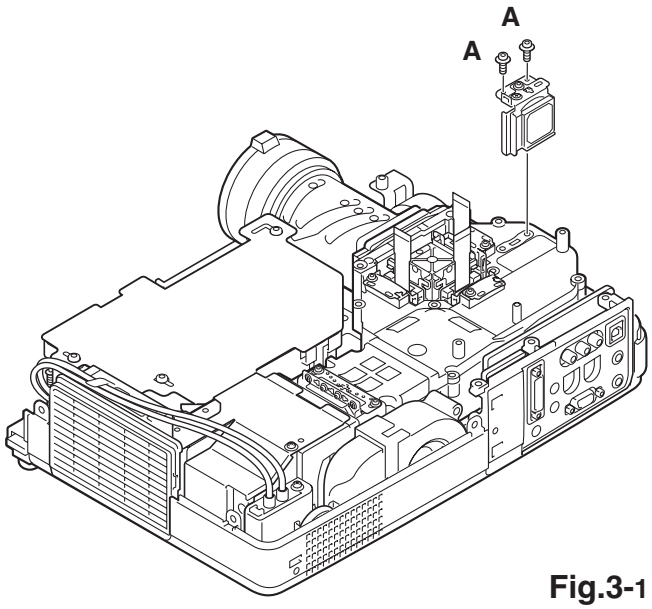


Fig.3-1

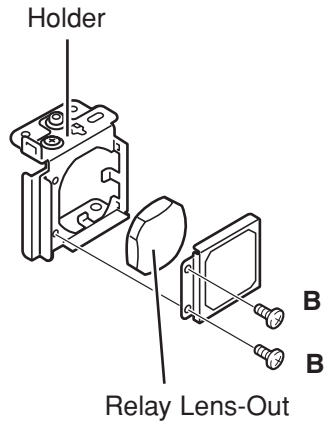


Fig.3-2

4 Polarized Glass-In removal

1 Remove each screw (M2.5x5) and pull the Polarized Glass-In ass'y upward.
2 Unhook the stoppers and take the glass off upward.

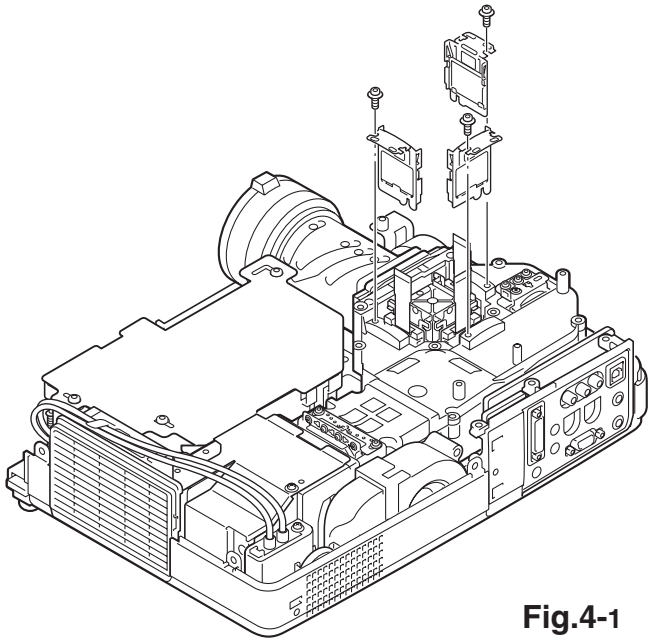
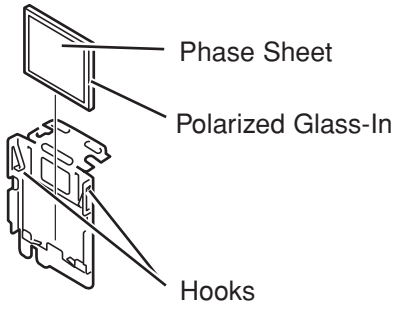


Fig.4-1



* Should be places the glass as the film attached side comes to the prism side.

Fig.4-2

5 LCD Panel/Prism Ass'y removal

1 Insert the hexial driver into a hole on the cabinet bottom and loosen 1 screw **A** on the Prism base.
2 Loosen 2 screws **B** on the LCD Panel/Prism ass'y.
3 Pull the LCD Panel/Prism ass'y upward off from the optical unit.

Note:
Do not remove the LCD panels from the Prism ass'y. Do not replace the LCD panel separately otherwise it cannot obtain proper picture.

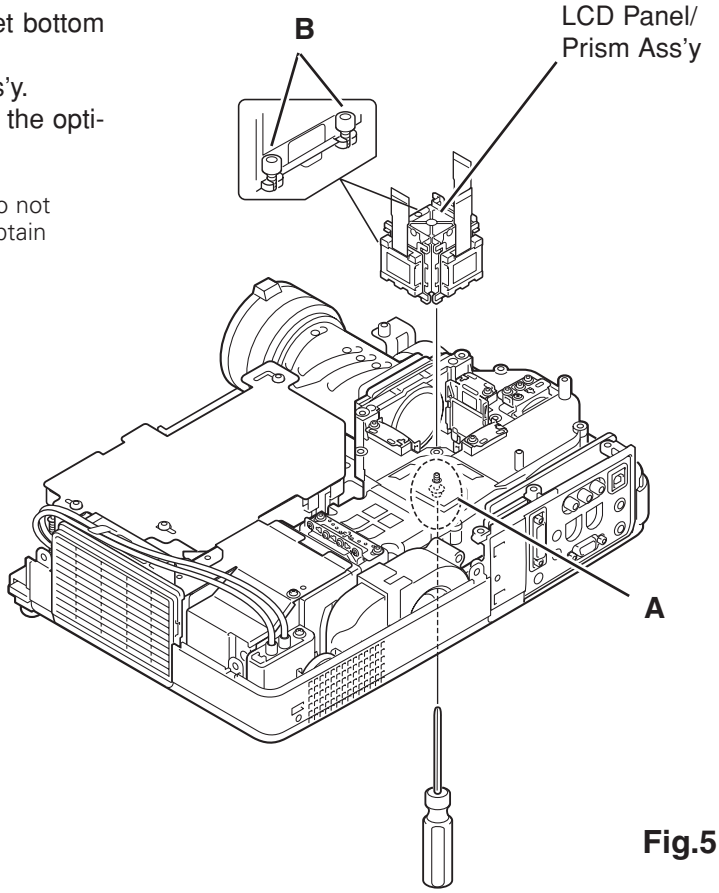


Fig.5

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" , "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.
  If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 3.0
Service Parts No. 645 056 6288

6 Optical Unit Top removal

1 Remove 4 screws **A** (T3x8) and 3 screws **B** (T3x8) to take the Optical Unit Top-A and B upward.

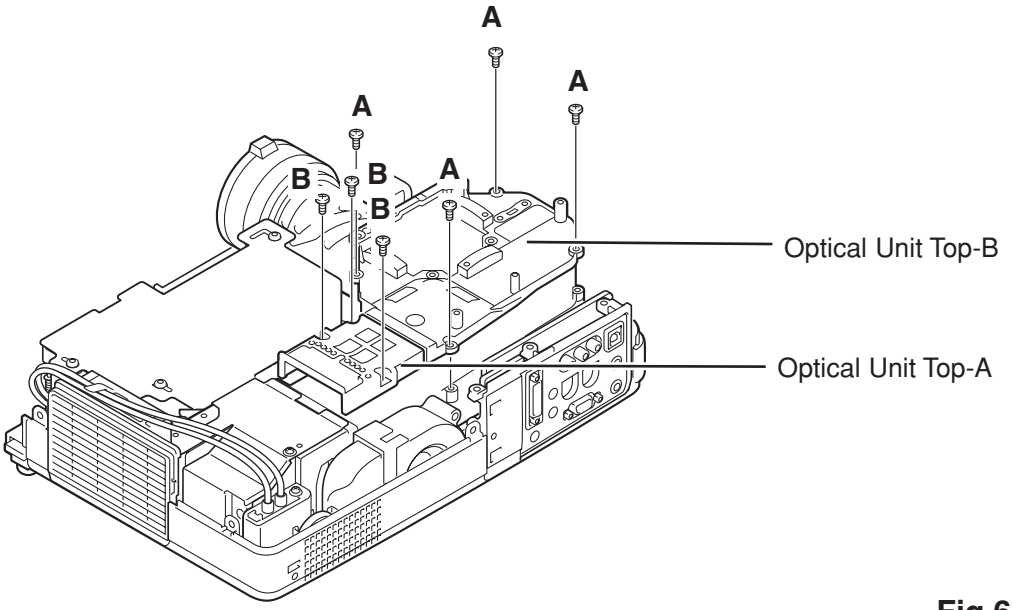


Fig.6

7 Locations and Directions

When the optical parts in the optical unit mounting or assembling, the parts must be mounted in the specified location and direction as shown in figure below.

Key No.	Description
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens
7	Relay lens (IN)
8	Mirror (R)
9	Condenser lens (R)
10	Condenser lens (B)
11	Mirror (B)
12	Optical filter (UV cut)

The arrows in the figure indelicate the mount direction of the part for the replacement. Check the number on the arrows and mount each part according to its note;
A: The printed part no. comes to this side.
B: The printed part no. comes to the bottom side.
C: The printed part no. comes to this side.
D: The printed part no. comes to the top side and the number can be read from the arrow direction.
E: The cutting corner comes to this side up.

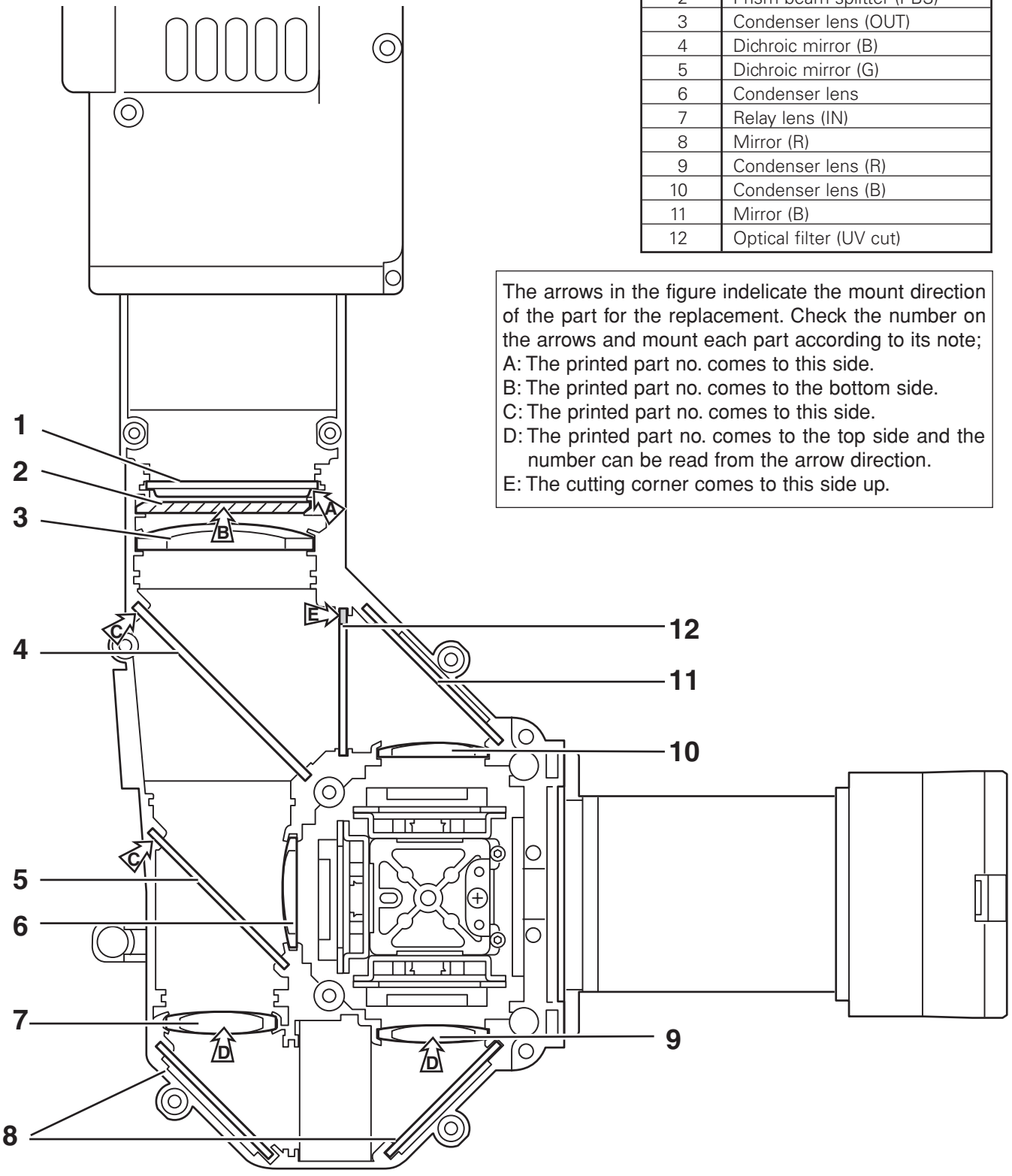


Fig.7

■ Adjustments

● Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	❍	●						
	Relay lens-out adjustment	❍		●					
Electrical Adjustments	Fan control adjustment								
	Clamp adjustment								●
	Sub gain adjustment								●
	Video center adjustment								●
	PSIG adjustment								●
	Black reference adjustment								●
	Common center adjustment	●							●
	Gamma adjustment	●							●
	White balance adjustment	❍							❍
	White uniformity adjustment	❍							

■ Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassemblies”.
Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.

Contrast adjustment

[Before Adjustment]
- Input a 100% of black raster signal.

1 Loosen a screw **A** (**Fig.1-1/1-2**) on the polarized glass mounting base which you intend to adjust.
2 Turn the polarized glass mounting base as shown in **Fig.1-1** to obtain the darkest brightness on the screen.
3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

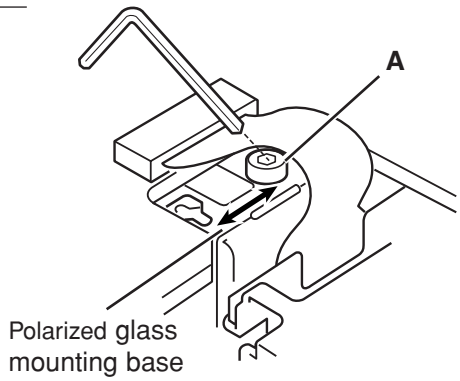


Fig.1-1

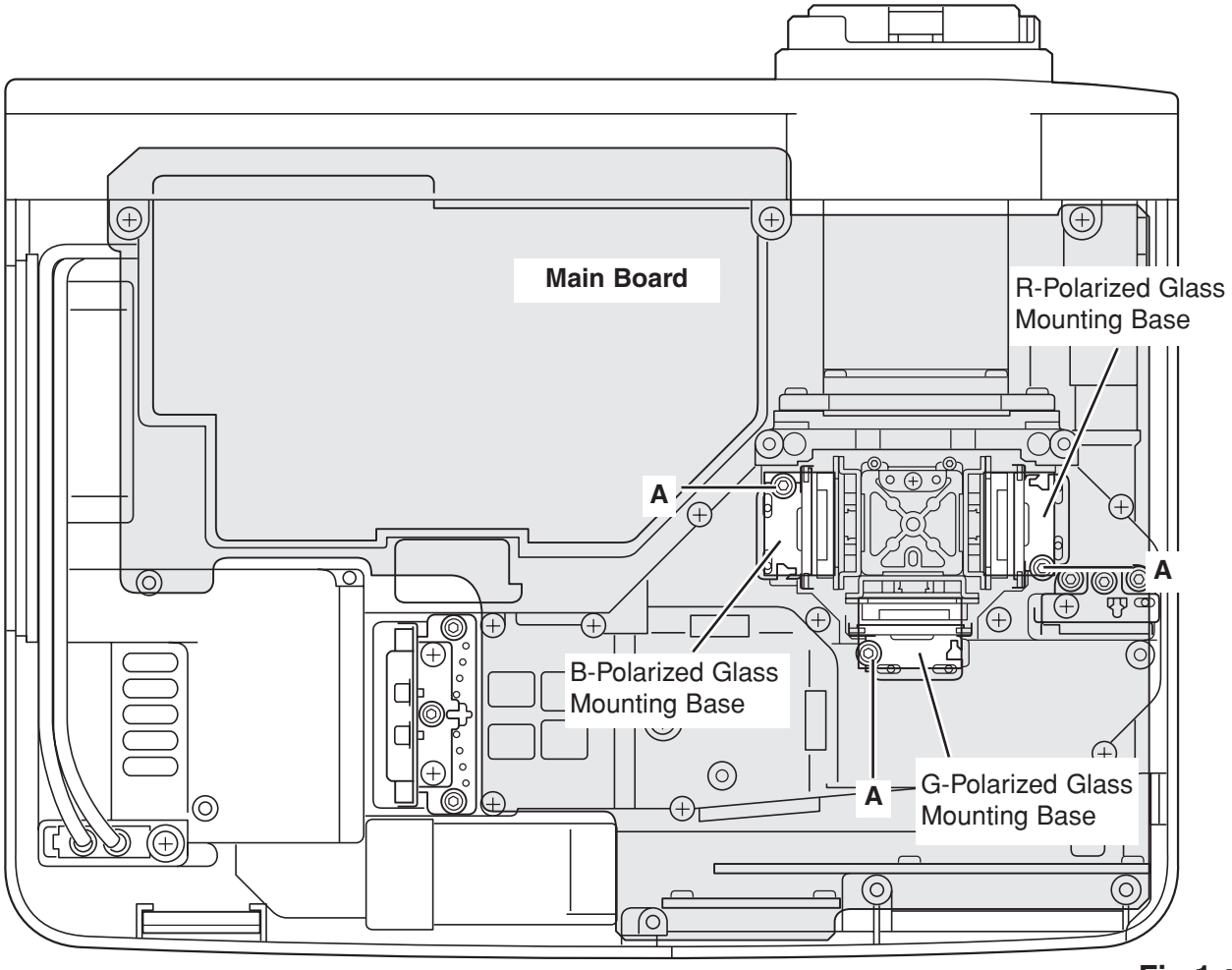
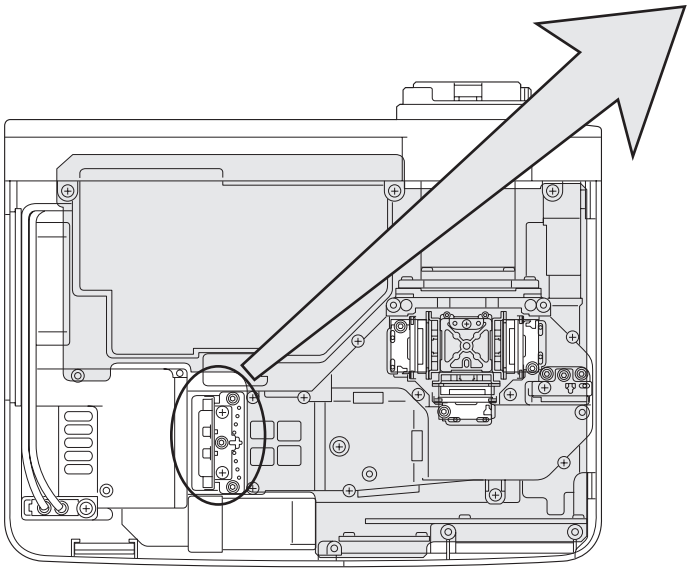


Fig.1-2

Integrator lens adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 2 screws **A** , and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and adjust the slot **D** to make color uniformity in white by using a slot screwdriver
4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.



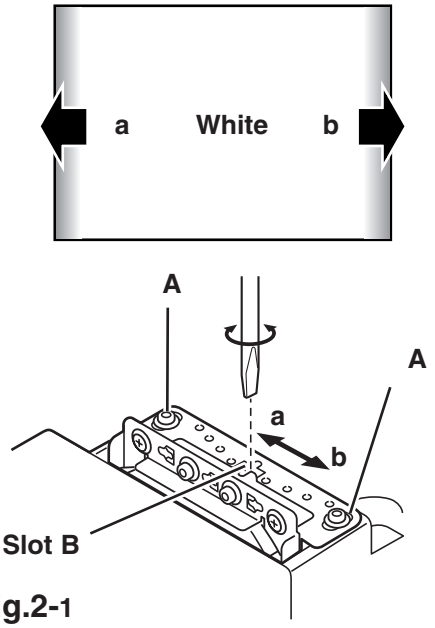


Fig.2-1
Moving of slot B

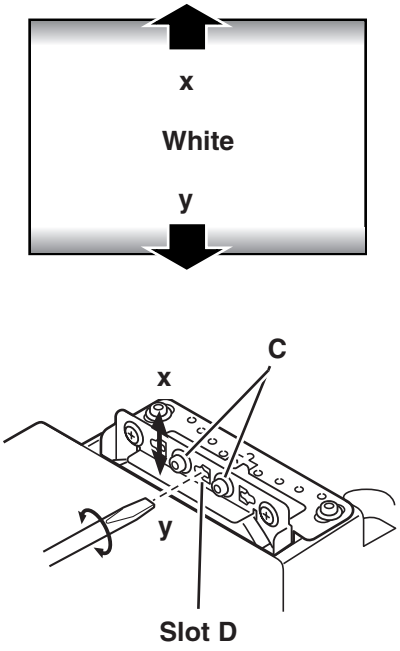
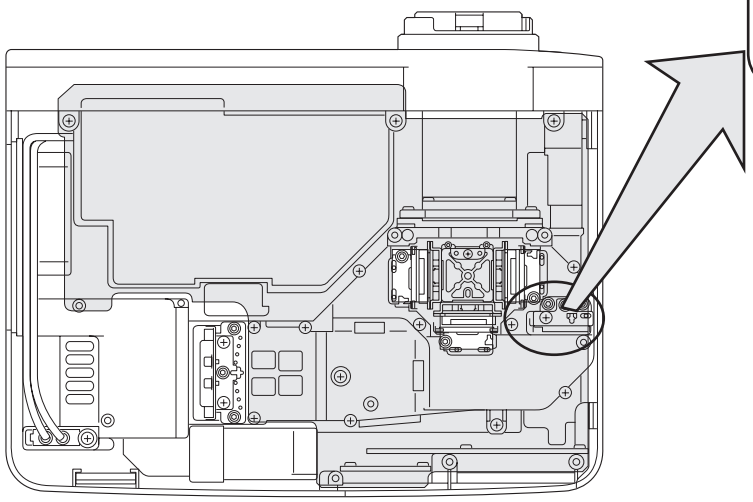


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screws **A** to fix the relay lens unit.



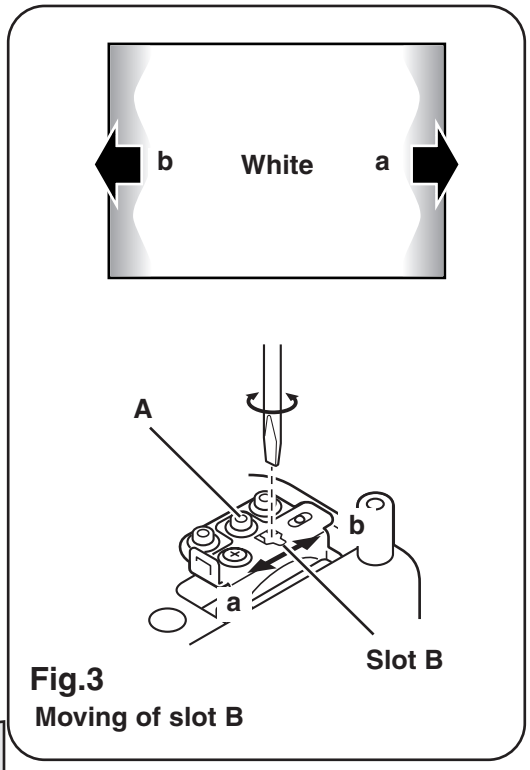


Fig.3
Moving of slot B

■ Electrical Adjustments

● Service Adjustment Menu Operation

To enter the service mode

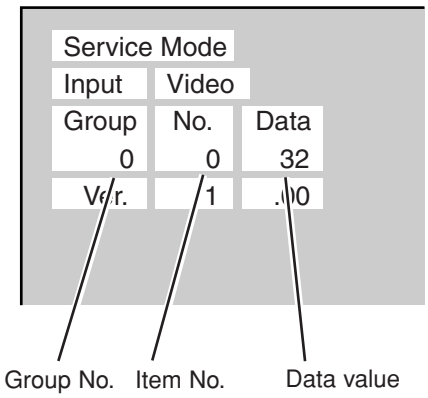
To enter the “Service Mode”, press and hold the **MENU** and **INPUT buttons** on the projector at the same time for more than 3 seconds. The service menu appears on the screen as follows.

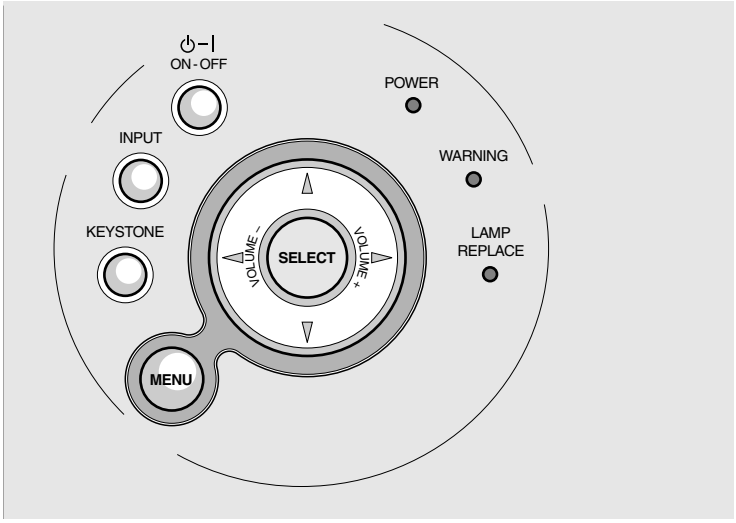
To adjust service data

Select the adjustment group no. by pressing the **MENU (+)** or **KEYSTONE (-) button**, and select the adjustment item no. by pressing the pointer **UP** or **DOWN button**, and change the data value by pressing the **VOLUME –** or **VOLUME + button**. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **POWER ON-OFF button** on the projector or remote control unit.





● Memory IC Replacement

IC1801 on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, the re-adjustments are required following to the “Electrical Adjustments”.
The data of lamp replacement counter is stored in the IC1801.
Please note that the lamp replace counter will be reset when the memory IC (IC1801) is replaced.
(Lamp replace counter cannot be set to the previous value.)

● Caution to memory IC replacement

When IC1801 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case Ic1801 is not defective)

When the main board is replaced, IC1801 should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
In this case, the lamp replace counter can be kept the value as before.

● Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

● Input signal

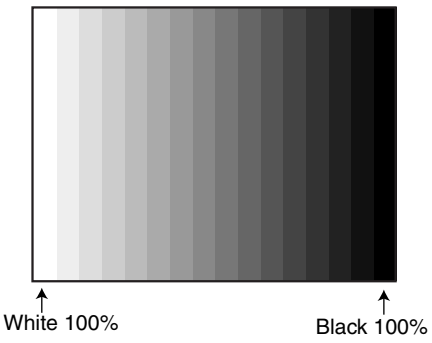
Video signal ..... 1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)

Computer signal ..... 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern

Component Video signal ..... 0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal with 480p, 575p, 720p or 1080i format)

● Picture control mode ..... "STANDARD" mode unless otherwise noted.

16 steps gray scale pattern



Note:

* Please refer to "Service Adjustment Menu Operation" for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of **K6D**.
2. Adjust the voltage by using **VR611** as following.

AC Input	Reading
230V	380V ±2V

Caution:
Be sure to connect the lamp when taking this adjustment.

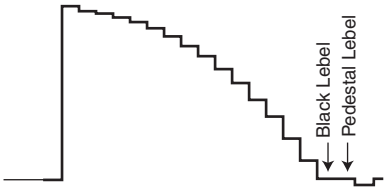
* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1 Fan Control adjustment

1. Set the lamp mode to "Normal" and then enter the service mode.
2. Select group no. "**111**", item no. "**5**" and set data value to "**1**".
3. Connect a digital voltmeter to test point "**TP12V1**" (+) and chassis ground (-). Select item no. "**89**" and change data value to adjust voltage to be **7.0** ±0.1V.
4. Connect a digital voltmeter to test point "**TP12V2**" (+) and chassis ground (-). Select item no. "**91**" and change data value to adjust voltage to be **7.0** ±0.1V.
5. Connect a digital voltmeter to test point "**TP12V1**" (+) and chassis ground (-). Select item no. "**90**" and change data value to adjust voltage to be **13.5** ±0.1V.
6. Connect a digital voltmeter to test point "**TP12V2**" (+) and chassis ground (-). Select item no. "**92**" and change data value to adjust voltage to be **13.5** ±0.1V.
7. Select item no. "**5**" and set data value to "**0**".

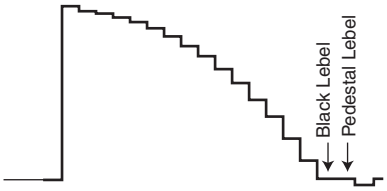
2 Clamp adjustment (PC)

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



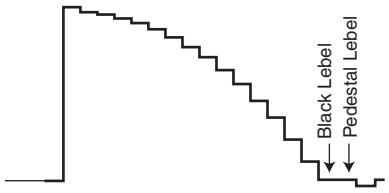
3 Clamp adjustment (AV)

1. Receive the 16-step gray scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



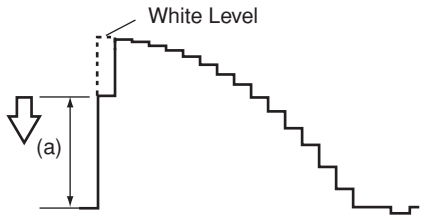
4 Clamp adjustment (COMPONENT)

1. Receive the 16-step grey scale component signal with **Computer2 [Component]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



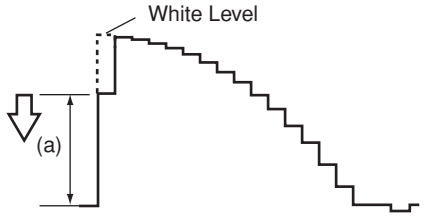
5 Sub Gain adjustment (PC)

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**1**" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**2**" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**3**" and adjust the amplitude "a" to be minimum by changing the Data value.



6 Sub Gain adjustment (Video)

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**1**" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**2**" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**3**" and adjust the amplitude "a" to be minimum by changing the Data value.

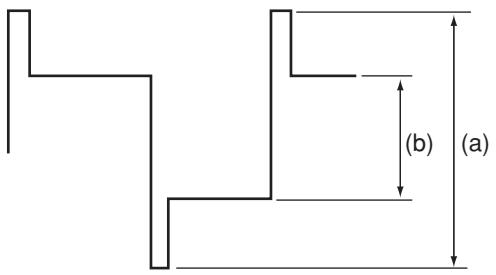


7 Video Center adjustment

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode
3. Connect a digital voltmeter to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**10**", item no. "**0**" and change data value to adjust the voltage to be **7.50** ±0.05V.
5. Connect a digital voltmeter to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the voltage to be **7.50** ±0.05V.
7. Connect a digital voltmeter to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the voltage to be **7.50** ±0.05V.

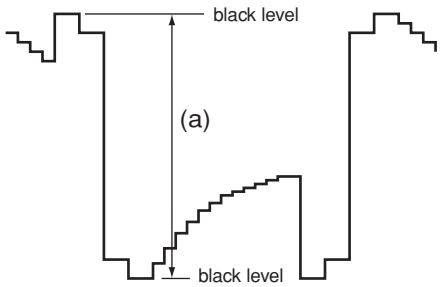
8 PSIG adjustment

1. Receive the 16-step gray scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPPSIG**" (+) and chassis ground (-).
4. Select group no. "**10**", item no. "**14**" and adjust the amplitude "a" to be **10.0** ±0.1V by changing the Data value.
5. Select item no. "**17**" and adjust the amplitude "b" to be **3.8** ±0.1V by changing the Data value.
3. Connect an oscilloscope to test point "**TPZPSIG**" (+) and chassis ground (-).
4. Select group no. "**10**", item no. "**12**" and adjust the amplitude "a" to be **10.0** ±0.1V by changing the Data value.
5. Select item no. "**15**" and adjust the amplitude "b" to be **3.8** ±0.1V by changing the Data value.



9 Black Reference adjustment

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**10**", item no. "**3**" and change data value to adjust amplitude "a" to be **9.8** ±0.1V.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**4**" and change data value to adjust amplitude "a" to be **9.8** ±0.1V.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**5**" and change data value to adjust amplitude "a" to be **9.8** ±0.1V.



10 Common Center adjustment

t1. Receive the 1 line black/white pattern computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Project only green light component to the screen.
4. Select group no. "**10**", item no. "**9**" and change data value to obtain the minimum flicker on the screen.
5. Project only red light component to the screen.
6. Select item no. "**10**" and change data value to obtain the minimum flicker on the screen.
7. Project only blue light component to the screen.
8. Select item no. "**11** and change data value to obtain the minimum flicker on the screen.

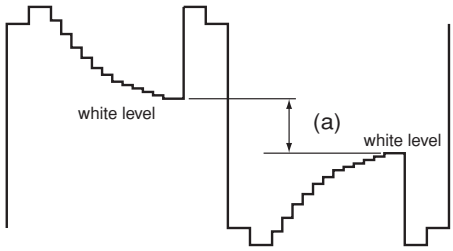
11 Gamma adjustment

[PC-GAMMA ADJUSTMENT]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**10**" and change data value to adjust amplitude "a" to be **2.0** ±0.1V.

[AV-GAMMA ADJUSTMENT]

1. Receive the 16-step grey scale video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**10**" and change data value to adjust amplitude "a" to be **1.3** ±0.1V.



12 White Balance adjustment

[PC WHITE BALANCE ADJUSTMENT]

1. Receive the 16-step gray scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode, select group no. "**9**" item no. "**11**" (Red) or "**12**" (Blue), and change Data values respectively to make a proper white balance.

[AV WHITE BALANCE ADJUSTMENT]

1. Receive the 16-step gray scale composite video signal with **Video [Video]** mode.
2. Enter the service mode, select group no. "**9**" item no. "**11**" (Red) or "**12**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

NOTE ON WHITE UNIFORMITY ADJUSTMENT

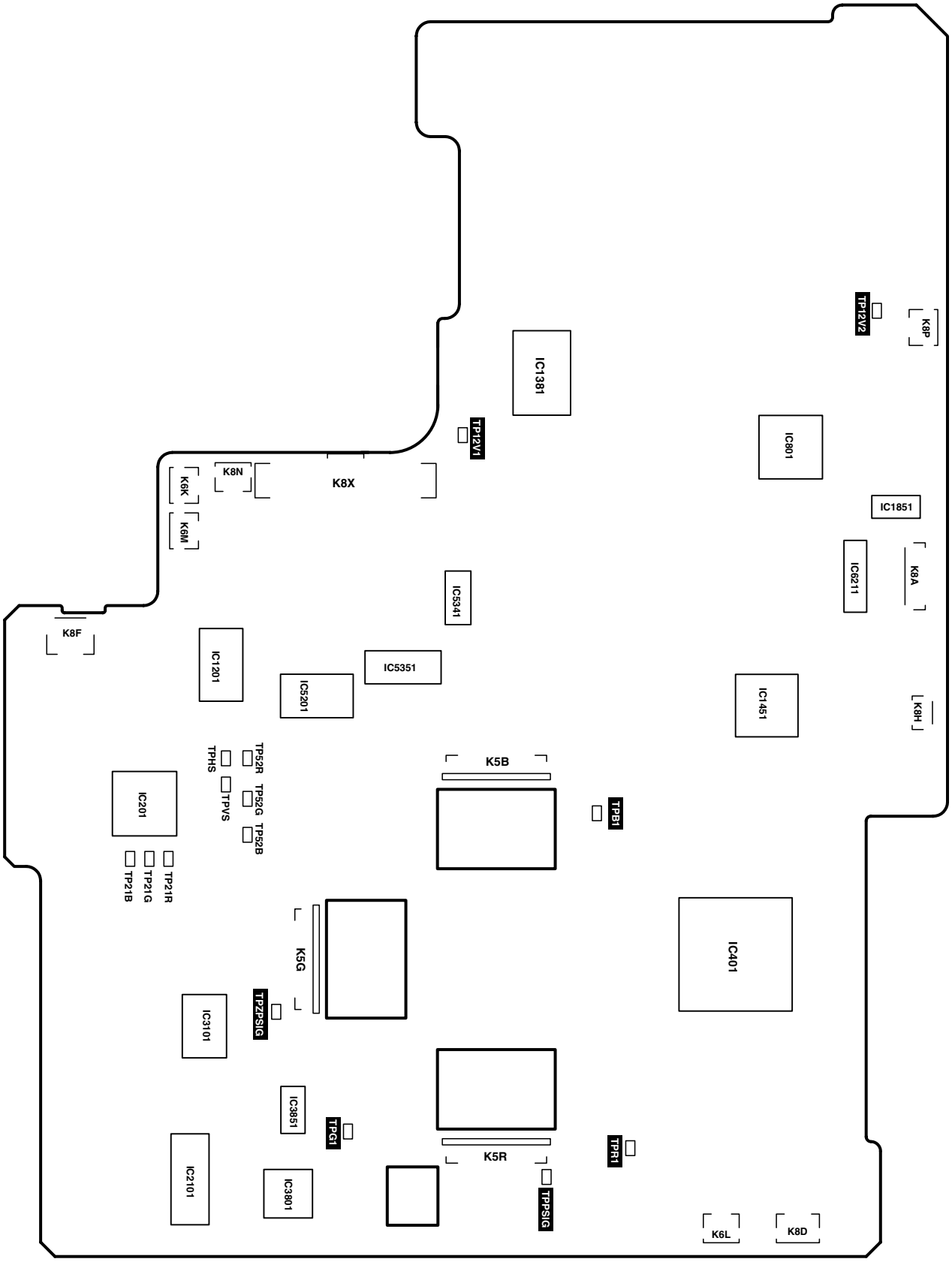
If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.

The software can be ordered as follows;

COLOR SHADING CORRECTION ver. 3.0
Service Parts No. 645 056 6288

● Test Points and Locations

MAIN BOARD



● Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "✻" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

No.	Adjustment Item	Initial Value	Range	Input source / Description
Group: 0 AD9882				
0	ADC G-OFFSET	81/103/72	0 ~ 127	✻ Clamp Adjustment [G]
1	ADC R-OFFSET	69/79/78	0 ~ 127	PC/AV30KHz/AV15KHz ✻ Clamp Adjustment [R]
2	ADC B-OFFSET	76/82/81	0 ~ 127	✻ Clamp Adjustment [B]
3	ADC R-GAIN	78/78/78	0 ~ 255	PC/AV30KHz/AV15KHz
4	ADC G-GAIN	78/78/78	0 ~ 255	PC/AV30KHz/AV15KHz
5	ADC B-GAIN	78/78/78	0 ~ 255	PC/AV30KHz/AV15KHz
6	ADC BandWidth PC	1	0 ~ 1	
7	ADC BandWidth AV	0	0 ~ 1	
8	ADC BandWidth DVI	1	0 ~ 1	
9	ADC BandWidth HDCP	1	0 ~ 1	
10	ADC BandWidth YCbCr	0	0 ~ 1	Only 1080i/1035i/720p, others are contained in AV
Group: 2 TB1274				
0	Y_OUT_LEVEL_CONTROL	0	-63 ~ 63	(YCbCr 480i)
1	C_OUT_LEVEL_CONTROL	0	-63 ~ 63	(YCbCr 480i)
2	TINT	30/32	0 ~63	CVBS/YC
3	SHP_EQ	2	0 ~ 3	
4	SHP_FO	2	0 ~ 3	
5	SHP_GAIN	12/10/10/10/10/8/11/11	0 ~15	VideoNT/ PAL,PALM,PALN/SECAM,BW60,BW50/ NT443/ PAL60/ S-Video/YCbCr/Scart
6	Y_OUT_LEVEL	24/24/24/24/28	0 ~ 63	VideoNT/ NT443/ PAL,PALM,PALN/ PAL60/ SECAM,BW
	0.7V	24/24/24/24/24/27/24		S-VideoNT,BW/ NT443/ PAL,PALM,PALN/ PAL60/ SECAM/ YCbCr/Scart
7	C_OUT_LEVEL	12/13/15/13/22	0 ~ 63	VideoNT/ NT443/ PAL,PALM,PALN/ PAL60/ SECAM,BW
	0.6V	12/13/15/13/22/17/17/21		S-VideoNT,BW/ NT443/ PAL,PALM,PALN/ PAL60/ SECAM/480i/575i/Scart
8	Y_DELAY	5/5/4/4/4	0 ~ 15	Video NT,BW60/ PAL,PALM,PALN,BW50/ SECAM/NT443/PAL60
		4/4/3/3/4		S-Video NT,BW60/PAL,PALM,PALN,BW50/ SECAM/ NT443/ PAL60
9	COL_SYS	-	-	Read Only
10	X'TAL	-	-	
11	NOISE_DET	-	-	
12	V_FREQ	-	-	
13	Vert. Std	-	-	
14	CID	-	-	
15	V_SIG	-	-	
16	MVM	0	0 or 1	
17	AFC_GAIN	1	0 ~ 3	
18	SECAM_GP,SECAM_ID	7	0 ~ 15	
19	LPF	1/1	0 or 1	Scart/not Scart
20	Cb OFFSET1	8	0-15	
21	Cr OFFSET1	8	0-15	
Group: 3 TA1370				
0	SEP.LEVEL	1	0 ~ 3	
1	HD1 OUT SET	1	0 ~ 1	
2	HD PHASE	29/29/36/38/36	0 ~ 63	1080i/1035i/720p/575p/480p
3	VD1 INV	0	0 ~ 1	
4	V-FREQ		0 ~ 127	read only
5	HD-IN		0 ~ 1	read only
6	H-FREQ		0 ~ 127	read only
Group: 7 TC90A69F				
0	Y-EQ_GAIN	3	0 ~ 3	
1	Y-EQ_N_C_LIM	1	0 ~ 3	
2	V-ENH_GAIN	1	0 ~ 7	
3	V_ENH_CORING	2	0 ~ 3	
4	NTSC443_SW	1	0 ~ 1	Set for Input system 0:NTSC4.431:PAL60(Effective only NTSC input)
Group: 8 LP05				
0	LP05_R_GAIN_ud	128	0 ~ 255	Turbo R Gain (128 at through)
1	LP05_G_GAIN_ud	128	0 ~ 255	Turbo G Gain (128 at through)
2	LP05_B_GAIN_ud	128	0 ~ 255	Turbo B Gain (128 at through)
3	LP05_TURBO_GAIN_ud	0	0 ~ 255	Turbo mixture ratio (0 at through)
4	LP05_SHP_EN_SET_ud	162/262	0 ~ 4095	Set Aperture Compensation effective period SVGA/XGA
5	LP05_SHP_EN_RST_ud	958/1281	0 ~ 4095	Set Aperture Compensation effective period SVGA/XGA
6	LP05_AB_ON_ud	3	0 ~ 3	Set Aperture Comp. period selection (points) 3: 3, 1: 2, 0: 1, 2: not selectable
7	LP05_EGE_ud	2	0 ~ 3	Selection Data for Frequency Characteristics
Group: 9 CXD3536R (Panel Drive System)				
0	DCK_CDAT		Read Only	[Addr:0x1043]
1	G_SUB_GAIN	71/70/61/61	0 ~ 255	[Addr:0x2007] PC/AV/DVI/HDCP ✻ Sub Gain Adjustment [G]
2	R_SUB_GAIN	71/70/61/61	0 ~ 255	[Addr:0x2006] PC/AV/DVI/HDCP ✻ Sub Gain Adjustment [R]
3	B_SUB_GAIN	71/70/61/61	0 ~ 255	[Addr:0x2008] PC/AV/DVI/HDCP ✻ Sub Gain Adjustment [B]
4	G_SUB_BRT	0	0 ~ 2047	[Addr:0x200B-200C] Signed 11bit
5	R_SUB_BRT	0	0 ~ 2047	[Addr:0x2009-200A] Signed 11bit
6	B_SUB_BRT	0	0 ~ 2047	[Addr:0x200D-200E] Signed 11bit
7	G_GAM_GAIN	128	0 ~ 255	[Addr:0x202C]
8	R_GAM_GAIN	128	0 ~ 255	[Addr:0x202B]
9	B_GAM_GAIN	128	0 ~ 255	[Addr:0x202D]

No.	Adjustment Item	Initial Value	Range	Input source / Description	
10	G_GAM_BRT	2014/2014/2014/2014	0 ~ 2047	[Addr:0x2030-2031] Signed 11bit Ignore lower 2bit PC/AV/DVI/HDCP	※ Gamma Adjustment
11	R_GAM_BRT	2014/2014/2014/2014	0 ~ 2047	[Addr:0x202E-202F] Signed 11bit Ignore lower 2bit PC/AV/DVI/HDCP	※ White Balance Adjustment
12	B_GAM_BRT	2014/2014/2014/2014	0 ~ 2047	[Addr:0x2032-2033] Signed 11bit Ignore lower 2bit PC/AV/DVI/HDCP	※ White Balance Adjustment
13	CSC_ON	1	0 ~ 1	[Addr:0x3000 bit6]	
14	CSC_XH	0	0 ~ 1	[Addr:0x3000 bit5]	
15	CSC_DWN	0	0 ~ 1	[Addr:0x3000 bit4]	
16	CSCRRGT	1	0 ~ 1	[Addr:0x3000 bit3]	
17	CSCGRGT	1	0 ~ 1	[Addr:0x3000 bit2]	
18	CSCBRGT	1	0 ~ 1	[Addr:0x3000 bit1]	
19	SHP	11	0 ~ 63	[Addr:0x1015 bit5-0]	
20	DCK1F	0	0 ~ 63	[Addr:0x101C bit5-0]	
21	DCK2F	0	0 ~ 63	[Addr:0x101E bit5-0]	
22	DCK3F	0	0 ~ 63	[Addr:0x1020 bit5-0]	
23	DCK4F	0	0 ~ 63	[Addr:0x1022 bit5-0]	
24	DCK5F	0	0 ~ 63	[Addr:0x1024 bit5-0]	
25	DCK6F	0	0 ~ 63	[Addr:0x1026 bit5-0]	
26	DFT_ON	0	0 ~ 1	[Addr:0x103B bit6]	
27	G_HPC_DAT	0	0 ~ 2047	[Addr:0x103E-103F] 11bit	
28	R_HPC_DAT	0	0 ~ 2047	[Addr:0x103C-103D] 11bit	
29	B_HPC_DAT	0	0 ~ 2047	[Addr:0x1040-1041] 11bit	
30	CSC_RGP3(R Threshold MID2)	450/552	0 ~ 1023	[Addr:0x300A + 0x300D] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
31	CSC_RGP2(R Threshold MID1)	600/656	0 ~ 1023	[Addr:0x300A + 0x300C] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
32	CSC_RGP1(R Threshold MAX)	700/736	0 ~ 1023	[Addr:0x300A + 0x300B] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
33	CSC_GGP3(G Threshold MID2)	450/552	0 ~ 1023	[Addr:0x3013 + 0x3016] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
34	CSC_GGP2(G Threshold MID1)	600/656	0 ~ 1023	[Addr:0x3013 + 0x3015] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
35	CSC_GGP1(G Threshold MAX)	700/736	0 ~ 1023	[Addr:0x3013 + 0x3014] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
36	CSC_BGP3(B Threshold MID2)	450/552	0 ~ 1023	[Addr:0x301C + 0x301F] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
37	CSC_BGP2(B Threshold MID1)	600/656	0 ~ 1023	[Addr:0x301C + 0x301E] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
38	CSC_BGP1(B Threshold MAX)	700/736	0 ~ 1023	[Addr:0x301C + 0x301D] Signed 10bit (Effective upper 9 bit9)	SVGA/XGA
Group: 10 CXA7005R					
0	G_SIG_CNTR	33	0~63	[IC531 Addr:0x01]	※ Video Center Adjustment [G]
1	R_SIG_CNTR	33	0~63	[IC501 Addr:0x01]	※ Video Center Adjustment [R]
2	B_SIG_CNTR	33	0~63	[IC561 Addr:0x01]	※ Video Center Adjustment [B]
3	G_GAIN_CTRL	144	0 ~ 255	[IC531 Addr:0x02]	※ Black Reference Adjustment [G]
4	R_GAIN_CTRL	144	0 ~ 255	[IC501 Addr:0x02]	※ Black Reference Adjustment [R]
5	B_GAIN_CTRL	144	0 ~ 255	[IC561 Addr:0x02]	※ Black Reference Adjustment [B]
6	G_BRT_CTRL	128	0 ~ 255	[IC531 Addr:0x03]	
7	R_BRT_CTRL	128	0 ~ 255	[IC501 Addr:0x03]	
8	B_BRT_CTRL	128	0 ~ 255	[IC561 Addr:0x03]	
9	G_VCOM_CTRL	80	0~127	[IC531 Addr:0x04]	※ Common Center Adjustment [G]
10	R_VCOM_CTRL	80	0~127	[IC501 Addr:0x04]	※ Common Center Adjustment [R]
11	B_VCOM_CTRL	80	0~127	[IC561 Addr:0x04]	※ Common Center Adjustment [B]
12	G_PSIGA	20	0~127	[IC531 Addr:0x05]	※ PSIG Adjustment [ZPSIG]
13	B_PSIGA	20	0~127	[IC561 Addr:0x05]	
14	R_PSIGA	20	0~127	[IC501 Addr:0x05]	※ PSIG Adjustment [PSIG]
15	G_PSIGB	86	0~127	[IC531 Addr:0x06]	※ PSIG Adjustment [ZPSIG]
16	B_PSIGB	86	0~127	[IC561 Addr:0x06]	
17	R_PSIGB	86	0~127	[IC501 Addr:0x06]	※ PSIG Adjustment [PSIG]
Group: 11 Gamma					
0	Standard GAMMA 0	0/0	0 ~ 1023		
1	Standard GAMMA 1	100/66	0 ~ 1023	PC,DVI Standard / AV Standard	
2	Standard GAMMA 2	180/132	0 ~ 1023	Read Only	
3	Standard GAMMA 3	308/256	0 ~ 1023		
4	Standard GAMMA 4	442/438	0 ~ 1023		
5	Standard GAMMA 5	522/544	0 ~ 1023		
6	Standard GAMMA 6	647/634	0 ~ 1023		
7	Standard GAMMA 7	703/689	0 ~ 1023		
8	Standard GAMMA 8	743/729	0 ~ 1023		
9	Standard GAMMA 9	776/764	0 ~ 1023		
10	Standard GAMMA 10	807/795	0 ~ 1023		
11	Standard GAMMA 11	840/822	0 ~ 1023		
12	Standard GAMMA 12	874/854	0 ~ 1023		
13	Standard GAMMA 13	902/880	0 ~ 1023		
14	Standard GAMMA 14	948/905	0 ~ 1023		
15	Standard GAMMA 15	1023/980	0 ~ 1023		
16	Real/Cinema GAMMA 0	512/512	0 ~ 1023		
17	Real/Cinema GAMMA 1	562/551	0 ~ 1023	PC,DVI Real / AV Cinema(Difference from Standard)	
18	Real/Cinema GAMMA 2	602/590	0 ~ 1023		
19	Real/Cinema GAMMA 3	630/620	0 ~ 1023		
20	Real/Cinema GAMMA 4	594/564	0 ~ 1023		
21	Real/Cinema GAMMA 5	560/538	0 ~ 1023		
22	Real/Cinema GAMMA 6	529/522	0 ~ 1023		
23	Real/Cinema GAMMA 7	513/509	0 ~ 1023		
24	Real/Cinema GAMMA 8	506/505	0 ~ 1023		
25	Real/Cinema GAMMA 9	505/500	0 ~ 1023		
26	Real/Cinema GAMMA 10	501/497	0 ~ 1023		
27	Real/Cinema GAMMA 11	497/502	0 ~ 1023		
28	Real/Cinema GAMMA 12	498/505	0 ~ 1023		
29	Real/Cinema GAMMA 13	490/503	0 ~ 1023		
30	Real/Cinema GAMMA 14	469/497	0 ~ 1023		
31	Real/Cinema GAMMA 15	424/497	0 ~ 1023		

No.	Adjustment Item	Initial Value	Range	Input source / Description	
Group 100 H8 Option					
0	Lamp Time Monitor		0~8738	Read Only	
1	RS232C Baudrate		0 ~ 1	0: 19200bps1: 9600bps	
2					
3	Cooling Time	3	1 ~ 15	Cooling time1:30 sec.3:90 sec.15:450 sec.	
4	Hi-Land SW	0	0 ~ 3	0: Normal Mode1~3: High-Land Mode 1-3	
5					
6	Lamp Total Time		0~65535	Read only	
7	Net Board RESET		0 ~ 1	Not used	
8					
9	Reset SW		0 ~ 10	Resets User Setting data when this value is set to 10	
10	Color Shading SW		0 ~ 1	0:Color Compensation Off, 1:Color Compensation On	
11	RC Enable/Disable	0	0 ~ 3	0:Enable 1:Disable	
12	Lamp Dim Level	10	0 ~ 15		
13	Lamp Warning Time		0~65535		
14					
15	Video Mute Forced Off		0 ~ 1	0:VideoMuteOn(Normal) 1:Video Mute Forced Off	
16	Safety FAN Control Fix SW		0 ~ 5	0:Normal 1:Normal Min2:Normal Max3:Eco Min4:Eco Max	
17	HDCP Option	0	0 ~ 3	0: XGA 1: other than XGA	
18	HDCP Reset	0	0 ~ 10		
19					
Group: 101PW Option					
0	Shootout Mode	0	0 ~ 1	1: Shoot Out Mode Enable0: Disable	
1					
2	NOBRAND	0	0 ~ 1	0:Normal1:NOBRAND	
3					
4	HDCP OverScan Rate	0	0 ~ 5		
Group: 110 Dimmer Processing					
0	DIMMER_CTRL_LEVEL1	7	0~255	Dimmer Brightness Level1 Data: Dimmer Level1 when less than this value.	
1	DIMMER_CTRL_LEVEL2	14	0~255	Dimmer Brightness Level2 Data: Dimmer Level2 when less than this value.	
2	DIMMER_CTRL_LEVEL3	21	0~255	Dimmer Brightness Level3 Data: Dimmer Level3 when less than this value.	
3	DIMMER_CTRL_LEVEL4	28	0~255	Dimmer Brightness Level4 Data: Dimmer Level4 when less than this value.	
4	DIMMER_CTRL_LEVEL5	35	0~255	Dimmer Brightness Level5 Data: Dimmer Level5 when less than this value.	
5	DIMMER_CTRL_LEVEL6	42	0~255	Dimmer Brightness Level6 Data: Dimmer Level6 when less than this value.	
6	DIMMER_CTRL_LEVEL7	49	0~255	Dimmer Brightness Level7 Data: Dimmer Level7 when less than this value.	
7	DIMMER_CTRL_LEVEL8	56	0~255	Dimmer Brightness Level8 Data: Dimmer Level8 when less than this value.	
8	DIMMER_CTRL_LEVEL9	63	0~255	Dimmer Brightness Level9 Data: Dimmer Level9 when less than this value.	
9	DIMMER_CTRL_LEVEL10	70	0~255	Dimmer Brightness Level10 Data: Dimmer Level10 when less than this value.	
10	DIMMER_CTRL_LEVEL11	77	0~255	Dimmer Brightness Level11 Data: Dimmer Level11 when less than this value.	
11	DIMMER_CTRL_LEVEL12	84	0~255	Dimmer Brightness Level12 Data: Dimmer Level12 when less than this value.	
12	DIMMER_CTRL_LEVEL13	91	0~255	Dimmer Brightness Level13 Data: Dimmer Level13 when less than this value.	
13	DIMMER_CTRL_LEVEL14	98	0~255	Dimmer Brightness Level14 Data: Dimmer Level14 when less than this value.	
14	DIMMER_CTRL_LEVEL15	105	0~255	Dimmer Brightness Level15 Data: Dimmer Level15 when less than this value.	
15	DIMMER_AVERAGE_POINT	4	1 ~ 16	Average count for Dimmer Brightness Data	
16	DIMMER_AVERAGE_DATA	-	0 ~ 255	Average Value for Dimmer Brightness Data * Read Only(8 bit)	
17	DIMMER_LEVEL_AUTO	-	0 ~ 15	Dimmer Level effective in auto-dimmer mode. 0 fixed other than auto mode (Read Only)	
18	DIMMER_LEVEL_NONAUTO	-	0 ~ 15	Dimmer Level effective other than auto-dimmer mode	
Group: 111 Fan Control					
0	FAN_TEMP_A_WARNING	55/59	30 ~ 100	Temperature A to judge the abnormal temperature, for surrounding temperature	SVGA/XGA
1	FAN_TEMP_B_WARNING	58/60	30 ~ 100	Temperature B to judge the abnormal temperature, for Panels	SVGA/XGA
2	FAN_TEMP_C_WARNING	71/73	30 ~ 100	Temperature C to judge the abnormal temperature, for Lamp	SVGA/XGA
3	FAN_TEMP_B-A_WARNING	100	0 ~ 100	Temperature B-A to judge the abnormal temperature, for detecting clogged filter	
4	FAN_TEMP_C-A_WARNING	100	0 ~ 100	Temperature C-A to judge the abnormal temperature, for detecting clogged filter	
5	FAN_CONTROL_SW	1	0 or 1	0: Auto Fan Control 1:Manual Control	
6	FAN_1_SPEED_CTRL	135	0 ~ 255	Manual Adjustment Mode when FAN_CONTROL_SW=1	
7	FAN_2_SPEED_CTRL	135	0 ~ 255		
8					
9	FAN_1_SPEED_MONI	-	0 ~ 255	Fan Speed Monitor when FAN_CONTROL_SW=0, Read Only	
10	FAN_2_SPEED_MONI	-	0 ~ 255		
11					
12	FAN_TEMP_A_MONI	-	-	Read Only	
13	FAN_TEMP_B_MONI	-	-		
14	FAN_TEMP_C_MONI	-	-		
15					
16	TEMP_UPWARNING_TIME	0	0 ~ 5	+15 degrees is added to Abnormal Temperature Value during x min after power on.	
17	NOR_TEMP_FAN1_MIN	42/48		Control Start Temperature for FAN1 at Normal Mode	SVGA/XGA
18	NOR_TEMP_FAN1_MAX	48/54		Control End Temperature for FAN1 at Normal Mode	SVGA/XGA
19	NOR_TEMP_FAN2_MIN	42/48	0~255	Control Start Temperature for FAN2 at Normal Mode	SVGA/XGA
20	NOR_TEMP_FAN2_MAX	48/54		Control End Temperature for FAN2 at Normal Mode	SVGA/XGA
21					
22					
23	NOR_VALU_FAN1_MIN	75		Minimum Control Value for FAN1 at Normal Mode (0: Fan Voltage 0V, 255: Fan Voltage 25.5V)	
24	NOR_VALU_FAN1_MAX	135		Maximum Control Value for FAN1 at Normal Mode	
25	NOR_VALU_FAN2_MIN	90	0~255	Minimum Control Value for FAN2 at Normal Mode	
26	NOR_VALU_FAN2_MAX	135		Maximum Control Value for FAN2 at Normal Mode	
27					
28					
29	ECO_TEMP_FAN1_MIN	41/47		Control Start Temperature for FAN1 at Eco Mode	SVGA/XGA
30	ECO_TEMP_FAN1_MAX	47/54		Control End Temperature for for FAN1 at Eco Mode	SVGA/XGA
31	ECOTEMP_FAN2_MIN	41/47	0~255	Control Start Temperature for FAN2 at Eco Mode	SVGA/XGA
32	ECO_TEMP_FAN2_MAX	47/54		Control End Temperature for for FAN2 at Eco Mode	SVGA/XGA

No.	Adjustment Item	Initial Value	Range	Input source / Description
33				
34				
35	ECO_VALU_FAN1_MIN	75		Minimum Control Value for FAN1 at Eco Mode
36	ECO_VALU_FAN1_MAX	135		Maximum Control Value for FAN1 at Eco Mode
37	ECO_VALU_FAN2_MIN	85	0~255	Minimum Control Value for FAN2 at Eco Mode
38	ECO_VALU_FAN2_MAX	130		Maximum Control Value for FAN2 at Eco Mode
39				
40				
41	HINOR_TEMP_FAN1_MIN	33		Control Start Temperature for FAN1 at Highland Normal Mode
42	HINOR_TEMP_FAN1_MAX	41		Control End Temperature for FAN1 at Highland Normal Mode
43	HINOR_TEMP_FAN2_MIN	33	0~255	Control Start Temperature for FAN2 at Highland Normal Mode
44	HINOR_TEMP_FAN2_MAX	41		Control End Temperature for FAN2 at Highland Normal Mode
45				
46				
47	HINOR_VALU_FAN1_MIN	70		Minimum Control Value for FAN1 at Highland Normal Mode (0: Fan Voltage 0V, 255: Fan Voltage 25.5V)
48	HINOR_VALU_FAN1_MAX	135		Maximum Control Value for FAN1 at Highland Normal Mode
49	HINOR_VALU_FAN2_MIN	80	0~255	Minimum Control Value for FAN2 at Highland Normal Mode
50	HINOR_VALU_FAN2_MAX	135		Maximum Control Value for FAN2 at Highland Normal Mode
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65	CLNOR_TEMP_FAN1_MIN	34		Control Start Temperature for FAN1 at Ceiling Normal Mode
66	CINOR_TEMP_FAN1_MAX	41		Control End Temperature for FAN1 at Ceiling Normal Mode
67	CLNOR_TEMP_FAN2_MIN	34	0~255	Control Start Temperature for FAN2 at Ceiling Normal Mode
68	CLNOR_TEMP_FAN2_MAX	41		Control End Temperature for FAN2 at Ceiling Normal Mode
69				
70				
71	CLNOR_VALU_FAN1_MIN	90		Minimum Control Value for FAN1 at Ceiling Normal Mode (0: Fan Voltage 0V, 255: Fan Voltage 25.5V)
72	CLNOR_VALU_FAN1_MAX	135		Maximum Control Value for FAN1 at Ceiling Normal Mode
73	CLNOR_VALU_FAN2_MIN	80	0~255	Minimum Control Value for FAN2at Ceiling Normal Mode
74	CLNOR_VALU_FAN2_MAX	135		
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89	FAN1_ADJUST_VOLT_MIN	24		DAC Adjustment Value at minimum driving voltage for FAN1 ※ Fan Control Adjustment
90	FAN1_ADJUST_VOLT_MAX	246		DAC Adjustment Value at maximum driving voltage for FAN1 ※ Fan Control Adjustment
91	FAN2_ADJUST_VOLT_MIN	23	0~255	DAC Adjustment Value at minimum driving voltage for FAN2 ※ Fan Control Adjustment
92	FAN2_ADJUST_VOLT_MAX	245		DAC Adjustment Value at maximum driving voltage for FAN2 ※ Fan Control Adjustment
93				
94				
Group: 112 PC Real/ AV Cinema				
0	PC Real Contrast	32	0 ~ 63	
1	PC Real Brightness	32	0 ~ 63	
2	PC Real Red	34	0 ~ 63	
3	PC Real Green	32	0 ~ 63	
4	PC Real Blue	31	0 ~ 63	
5	PC Real Gamma	8	0 ~ 15	
6	AV Cinema Contrast	32	0 ~ 63	
7	AV Cinema Brightness	32	0 ~ 63	
8	AV Cinema Color	32	0 ~ 63	
9	AV Cinema Tint	32	0 ~ 63	
10	AV Cinema Red	32	0 ~ 63	
11	AV Cinema Green	30	0 ~ 63	
12	AV Cinema Blue	29	0 ~ 63	
13	AV Cinema Sharpness	8	0 ~ 31	
14	AV Cinema Gamma	8	0 ~ 15	
15	AV Cinema N.R.	1	0 ~ 2	
16	AV Cinema PROGRESSIVE	1	0 or 1	
Group: 300 I/P				
0	L1 LWDIFFTH	10	0 ~ 255	L1 For motion movie

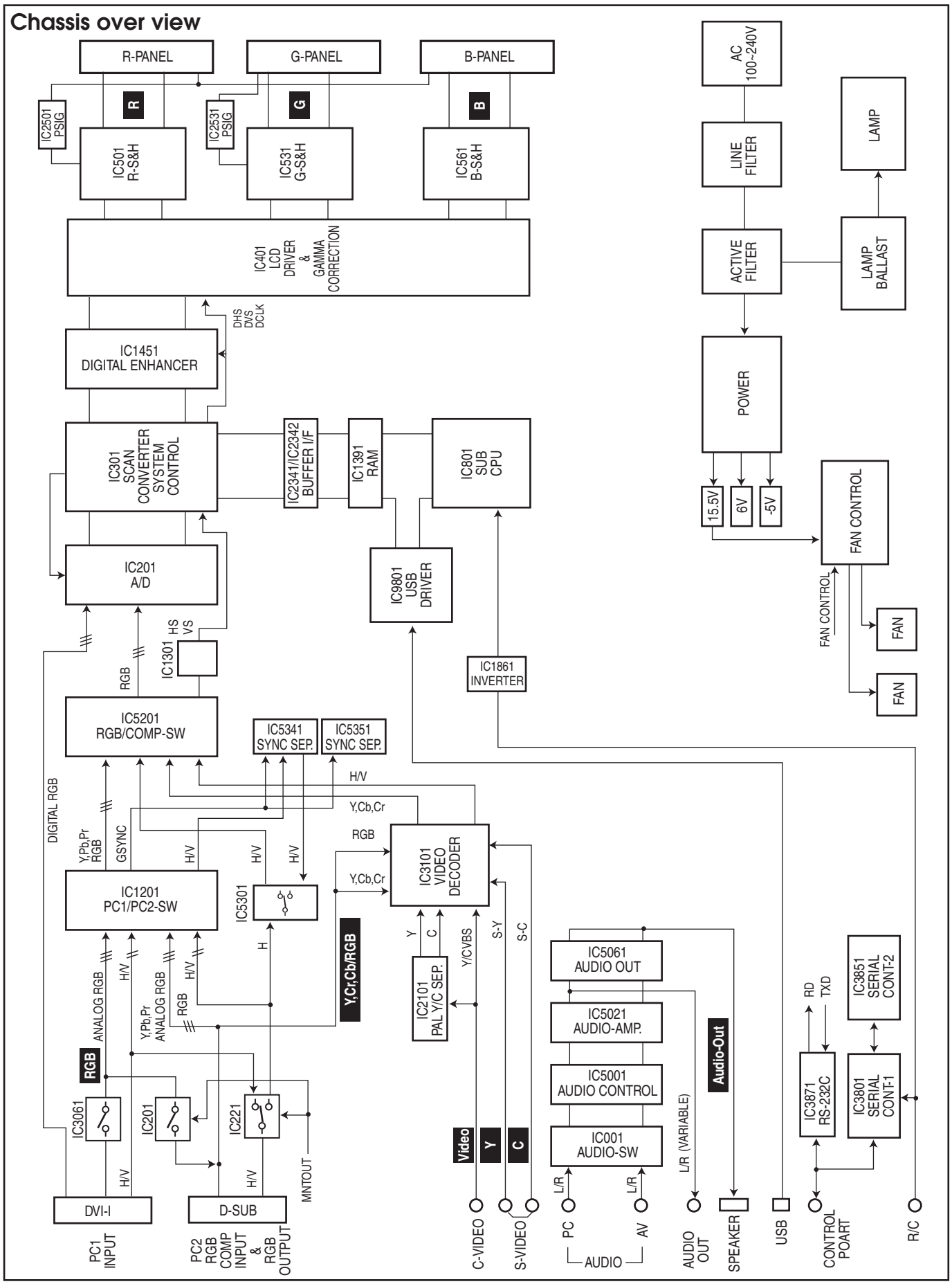
No.	Adjustment Item	Initial Value	Range	Input source / Description
1	L1 HIDIFFTH	48	0 ~ 255	
2	L1 HIMOTHR	1	0 ~ 16	
3	L1 LWMOTHR	1	0 ~ 16	
4	L2 LWDIFFTH	32	0 ~ 255	L2 Still picture
5	L2 HIDIFFTH	48	0 ~ 255	
6	L2 HIMOTHR	6	0 ~ 16	
7	L2 LWMOTHR	6	0 ~ 16	
Group: 301 Color Gain				
0	AV Color	32	0 ~ 63	Color[0-63] on AV menu
1	Color Space Converter	48[0-63]	0 ~ 4096	PW463 Extended Input Port CSC
2	TB1274AF C Out	21/29/20/28	0 ~ 63	Video S-VideoOther/SECAM,BW/YCbCr/Scart[0-63]
3	TB1274AF Sub Color	8/8/8/8	0 ~ 16	Video S-Video Other/SECAM,BW/ YCbCr/Scart
Group: 500 NTSC Gakaku (Composite/Svideo) at I/P OFF				
0	NTSC TOTAL DOTS	1311	0 ~ 4096	
1	NTSC DISP DOTS	1025	0 ~ 4096	
2	NTSC H BACK PORCTH	234	0 ~ 4096	
3	NTSC V BACK PORCTH	48	0 ~ 4096	
4	NTSC DISP LINE	459	0 ~ 4096	
5	NTSC CLAMP	1	0 ~ 127	
6	NTSC WIDTH	31	0 ~ 63	
Group: 501 PAL Gakaku(Composite/Svideo) at I/P OFF				
0	PAL TOTAL DOTS	1328	0 ~ 4096	
1	PAL DISP DOTS	1004	0 ~ 4096	
2	PAL H BACK PORCTH	267	0 ~ 4096	
3	PAL V BACK PORCTH	63	0 ~ 4096	
4	PAL DISP LINE	541	0 ~ 4096	
5	PAL CLAMP	1	0 ~ 127	
6	PAL WIDTH	31	0 ~ 63	
Group: 502 NTSC Gakaku (Composite/Svideo) at I/P ON				
0	NTSC TOTAL DOTS	959	0 ~ 4096	
1	NTSC DISP DOTS	748	0 ~ 768	
2	NTSC H BACK PORCTH	175	0 ~ 4096	
3	NTSC V BACK PORCTH	49	0 ~ 4096	
4	NTSC DISP LINE	458	0 ~ 576	
5	NTSC CLAMP	1	0 ~ 127	
6	NTSC WIDTH	31	0 ~ 63	
Group: 503 PAL Gakaku(Composite/Svideo) at I/P ON				
0	PAL TOTAL DOTS	990	0 ~ 4096	
1	PAL DISP DOTS	748	0 ~ 768	
2	PAL H BACK PORCTH	201	0 ~ 4096	
3	PAL V BACK PORCTH	64	0 ~ 4096	
4	PAL DISP LINE	536	0 ~ 576	
5	PAL CLAMP	1	0 ~ 127	
6	PAL WIDTH	31	0 ~ 63	
Group: 510 HDTV 1080i-60 Gakaku (Component)				
0	HDTV TOTAL DOTS	2243	0 ~ 4096	
1	HDTV DISP DOTS	1909	0 ~ 4096	
2	HDTV H BACK PORCTH	245	0 ~ 4096	
3	HDTV V BACK PORCTH	56	0 ~ 4096	
4	HDTV DISP LINE	1050	0 ~ 4096	
5	HDTV CLAMP	7	0 ~ 127	
6	HDTV WIDTH	58	0 ~ 63	
Group: 511HDTV 1080i-50 Gakaku (Component)				
0	HDTV TOTAL DOTS	2663	0 ~ 4096	
1	HDTV DISP DOTS	1886	0 ~ 4096	
2	HDTV H BACK PORCTH	243	0 ~ 4096	
3	HDTV V BACK PORCTH	56	0 ~ 4096	
4	HDTV DISP LINE	1050	0 ~ 4096	
5	HDTV CLAMP	7	0 ~ 127	
6	HDTV WIDTH	58	0 ~ 63	
Group: 512 HDTV 1035i Gakaku (Component)				
0	HDTV TOTAL DOTS	2244	0 ~ 4096	
1	HDTV DISP DOTS	1907	0 ~ 4096	
2	HDTV H BACK PORCTH	251	0 ~ 4096	
3	HDTV V BACK PORCTH	92	0 ~ 4096	
4	HDTV DISP LINE	1009	0 ~ 4096	
5	HDTV CLAMP	7	0 ~ 127	
6	HDTV WIDTH	58	0 ~ 63	
Group: 513 HDTV 720p Gakaku (Component)				
0	HDTV TOTAL DOTS	1679	0 ~ 4096	
1	HDTV DISP DOTS	1270	0 ~ 4096	
2	HDTV H BACK PORCTH	321	0 ~ 4096	
3	HDTV V BACK PORCTH	34	0 ~ 4096	
4	HDTV DISP LINE	700	0 ~ 4096	
5	HDTV CLAMP	7	0 ~ 127	

No.	Adjustment Item	Initial Value	Range	Input source / Description
6	HDTV WIDTH	58	0 ~ 63	
Group: 514 HDTV 575p Gakaku (Component)				
0	HDTV TOTAL DOTS	1253	0 ~ 4096	
1	HDTV DISP DOTS	952	0 ~ 4096	
2	HDTV H BACK PORCTH	249	0 ~ 4096	
3	HDTV V BACK PORCTH	61	0 ~ 4096	
4	HDTV DISP LINE	536	0 ~ 4096	
5	HDTV CLAMP	35	0 ~ 127	
6	HDTV WIDTH	58	0 ~ 63	
Group: 515 HDTV 480p Gakaku (Component)				
0	HDTV TOTAL DOTS	1317	0 ~ 4096	
1	HDTV DISP DOTS	1051	0 ~ 4096	
2	HDTV H BACK PORCTH	221	0 ~ 4096	
3	HDTV V BACK PORCTH	48	0 ~ 4096	
4	HDTV DISP LINE	459	0 ~ 4096	
5	HDTV CLAMP	35	0 ~ 127	
6	HDTV WIDTH	58	0 ~ 63	
Group: 516 HDTV 575i Gakaku (Component) at I/P OFF				
0	HDTV TOTAL DOTS	1309	0 ~ 4096	
1	HDTV DISP DOTS	984	0 ~ 4096	
2	HDTV H BACK PORCTH	259	0 ~ 4096	
3	HDTV V BACK PORCTH	60	0 ~ 4096	
4	HDTV DISP LINE	543	0 ~ 4096	
5	HDTV CLAMP	1	0 ~ 127	
6	HDTV WIDTH	31	0 ~ 63	
Group: 517 HDTV 480i Gakaku (Component)at I/POFF				
0	HDTV TOTAL DOTS	1311	0 ~ 4096	
1	HDTV DISP DOTS	1023	0 ~ 4096	
2	HDTV H BACK PORCTH	216	0 ~ 4096	
3	HDTV V BACK PORCTH	49	0 ~ 4096	
4	HDTV DISP LINE	458	0 ~ 4096	
5	HDTV CLAMP	1	0 ~ 127	
6	HDTV WIDTH	31	0 ~ 63	
Group: 518 HDTV 575i Gakaku (Component) at I/P ON				
0	HDTV TOTAL DOTS	991	0 ~ 4096	
1	HDTV DISP DOTS	748	0 ~ 768	
2	HDTV H BACK PORCTH	198	0 ~ 4096	
3	HDTV V BACK PORCTH	60	0 ~ 4096	
4	HDTV DISP LINE	536	0 ~ 576	
5	HDTV CLAMP	1	0 ~ 127	
6	HDTV WIDTH	31	0 ~ 63	
Group: 519 HDTV 480i Gakaku (Component) at I/PON				
0	HDTV TOTAL DOTS	959	0 ~ 4096	
1	HDTV DISP DOTS	748	0 ~ 768	
2	HDTV H BACK PORCTH	158	0 ~ 4096	
3	HDTV V BACK PORCTH	50	0 ~ 4096	
4	HDTV DISP LINE	455	0 ~ 576	
5	HDTV CLAMP	1	0 ~ 127	
6	HDTV WIDTH	31	0 ~ 63	
Group: 520 RGB 1080i-60 Gakaku				
0	RGB TOTAL DOTS	2298	0 ~ 4096	
1	RGB DISP DOTS	1953	0 ~ 4096	
2	RGB H BACK PORCTH	264	0 ~ 4096	
3	RGB V BACK PORCTH	81	0 ~ 4096	
4	RGB DISP LINE	1050	0 ~ 4096	
5	RGB CLAMP	40	0 ~ 127	
6	RGB WIDTH	58	0 ~ 63	
Group: 521 RGB 1080i-50 Gakaku				
0	RGB TOTAL DOTS	2735	0 ~ 4096	
1	RGB DISP DOTS	1938	0 ~ 4096	
2	RGB H BACK PORCTH	261	0 ~ 4096	
3	RGB V BACK PORCTH	55	0 ~ 4096	
4	RGB DISP LINE	1050	0 ~ 4096	
5	RGB CLAMP	40	0 ~ 127	
6	RGB WIDTH	58	0 ~ 63	
Group: 522 RGB 1035i Gakaku				
0	RGB TOTAL DOTS	2261	0 ~ 4096	
1	RGB DISP DOTS	1920	0 ~ 4096	
2	RGB H BACK PORCTH	260	0 ~ 4096	
3	RGB V BACK PORCTH	92	0 ~ 4096	
4	RGB DISP LINE	1012	0 ~ 4096	
5	RGB CLAMP	40	0 ~ 127	
6	RGB WIDTH	58	0 ~ 63	

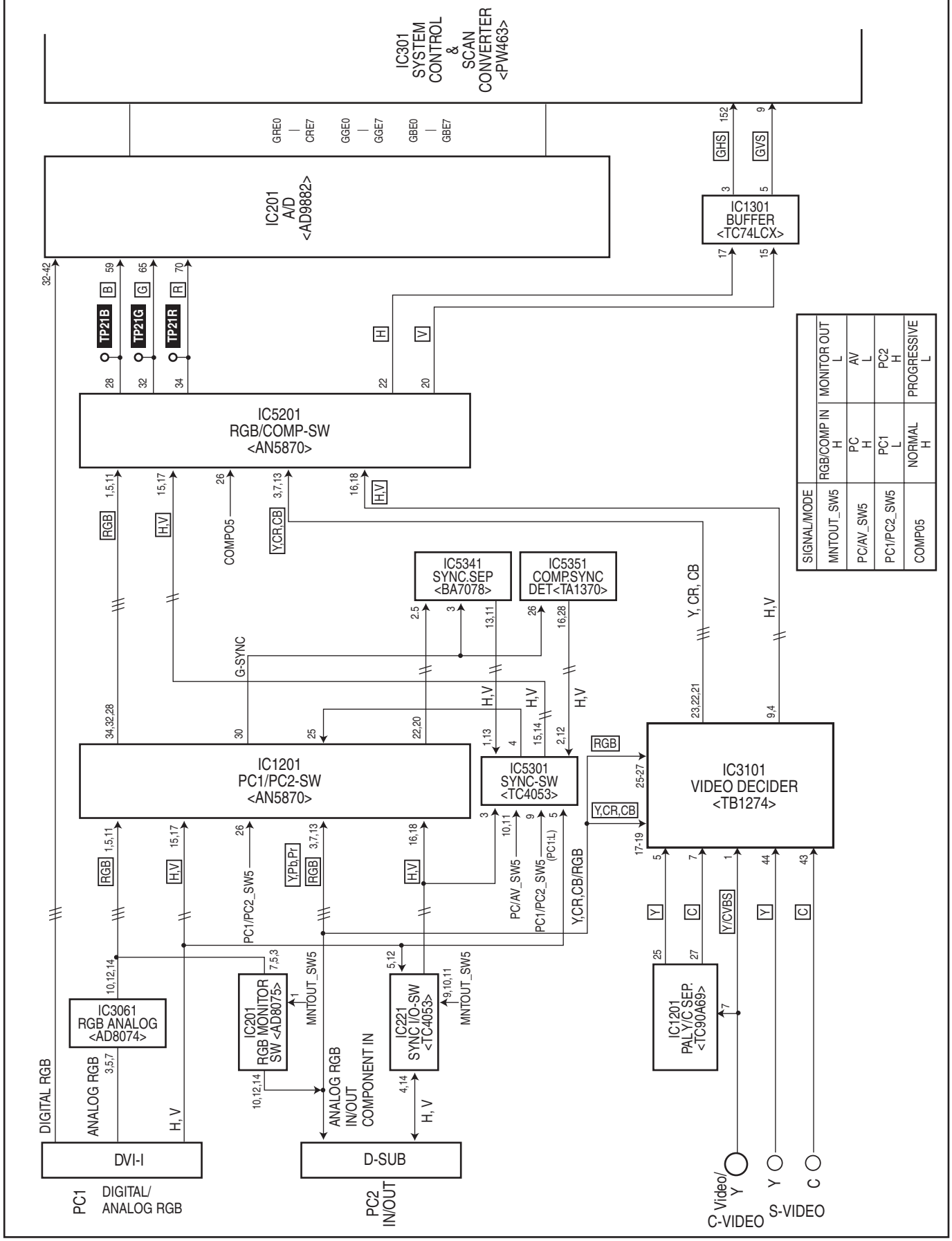
No.	Adjustment Item	Initial Value	Range	Input source / Description
Group: 523 RGB 720p Gakaku				
0	RGB TOTAL DOTS	2203	0 ~ 4096	
1	RGB DISP DOTS	1666	0 ~ 4096	
2	RGB H BACK PORCTH	410	0 ~ 4096	
3	RGB V BACK PORCTH	35	0 ~ 4096	
4	RGB DISP LINE	700	0 ~ 4096	
5	RGB CLAMP	50	0 ~ 127	
6	RGB WIDTH	58	0 ~ 63	
Group: 524 RGB 575p Gakaku				
0	RGB TOTAL DOTS	1385	0 ~ 4096	
1	RGB DISP DOTS	1052	0 ~ 4096	
2	RGB H BACK PORCTH	263	0 ~ 4096	
3	RGB V BACK PORCTH	62	0 ~ 4096	
4	RGB DISP LINE	535	0 ~ 4096	
5	RGB CLAMP	7	0 ~ 127	
6	RGB WIDTH	58	0 ~ 63	
Group: 525 RGB 480p Gakaku				
0	RGB TOTAL DOTS	1309	0 ~ 4096	
1	RGB DISP DOTS	1046	0 ~ 4096	
2	RGB H BACK PORCTH	211	0 ~ 4096	
3	RGB V BACK PORCTH	55	0 ~ 4096	
4	RGB DISP LINE	560	0 ~ 4096	
5	RGB CLAMP	7	0 ~ 127	
6	RGB WIDTH	26	0 ~ 63	
Group: 526 RGB 575i Gakaku				
0	RGB TOTAL DOTS	1314	0 ~ 4096	
1	RGB DISP DOTS	992	0 ~ 4096	
2	RGB H BACK PORCTH	256	0 ~ 4096	
3	RGB V BACK PORCTH	65	0 ~ 4096	
4	RGB DISP LINE	539	0 ~ 4096	
5	RGB CLAMP	1	0 ~ 127	
6	RGB WIDTH	32	0 ~ 63	
Group: 527 RGB 480i Gakaku				
0	RGB TOTAL DOTS	1313	0 ~ 4096	
1	RGB DISP DOTS	1024	0 ~ 4096	
2	RGB H BACK PORCTH	216	0 ~ 4096	
3	RGB V BACK PORCTH	48	0 ~ 4096	
4	RGB DISP LINE	459	0 ~ 4096	
5	RGB CLAMP	1	0 ~ 127	
6	RGB WIDTH	32	0 ~ 63	
Group: 530 SCART 575i Gakaku at I/P OFF				
0	SCART TOTAL DOTS	1313	0 ~ 4096	
1	SCART DISP DOTS	985	0 ~ 4096	
2	SCART H BACK PORCTH	243	0 ~ 4096	
3	SCART V BACK PORCTH	70	0 ~ 4096	
4	SCART DISP LINE	514	0 ~ 4096	
5	SCART CLAMP	1	0 ~ 127	
6	SCART WIDTH	32	0 ~ 63	
Group: 531 SCART 480i Gakaku at I/P OFF				
0	SCART TOTAL DOTS	1296	0 ~ 4096	
1	SCART DISP DOTS	1042	0 ~ 4096	
2	SCART H BACK PORCTH	211	0 ~ 4096	
3	SCART V BACK PORCTH	46	0 ~ 4096	
4	SCART DISP LINE	450	0 ~ 4096	
5	SCART CLAMP	1	0 ~ 127	
6	SCART WIDTH	32	0 ~ 63	
Group: 532 SCART 575i Gakaku at I/P ON				
0	SCART TOTAL DOTS	998	0 ~ 4096	
1	SCART DISP DOTS	748	0 ~ 768	
2	SCART H BACK PORCTH	187	0 ~ 4096	
3	SCART V BACK PORCTH	70	0 ~ 4096	
4	SCART DISP LINE	514	0 ~ 576	
5	SCART CLAMP	1	0 ~ 127	
6	SCART WIDTH	32	0 ~ 63	
Group: 533 SCART 480i Gakaku at I/P ON				
0	SCART TOTAL DOTS	940	0 ~ 4096	
1	SCART DISP DOTS	748	0 ~ 768	
2	SCART H BACK PORCTH	155	0 ~ 4096	
3	SCART V BACK PORCTH	44	0 ~ 4096	
4	SCART DISP LINE	452	0 ~ 576	
5	SCART CLAMP	1	0 ~ 127	
6	SCART WIDTH	32	0 ~ 63	

■ Chassis Block Diagrams

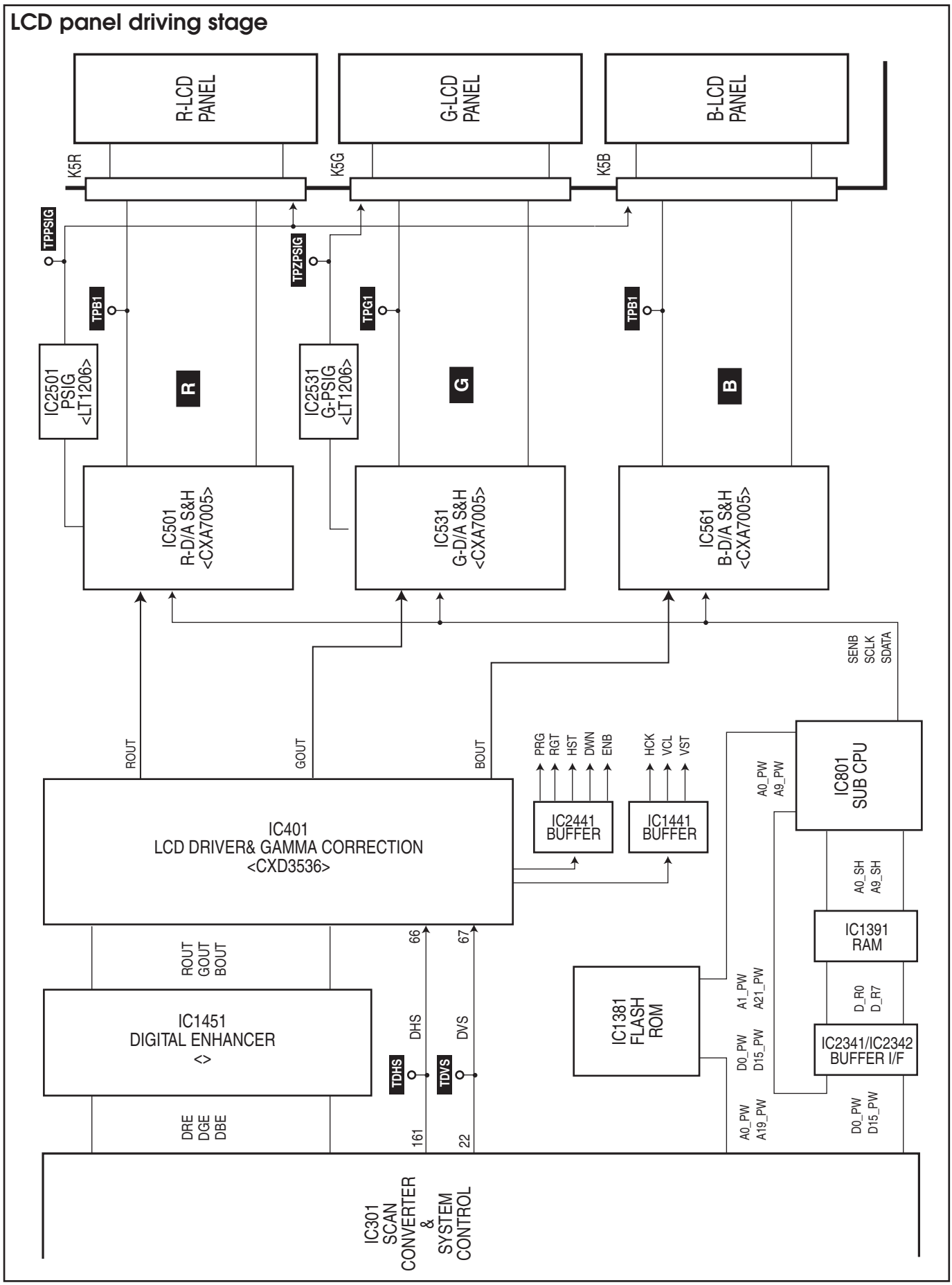
Chassis over view



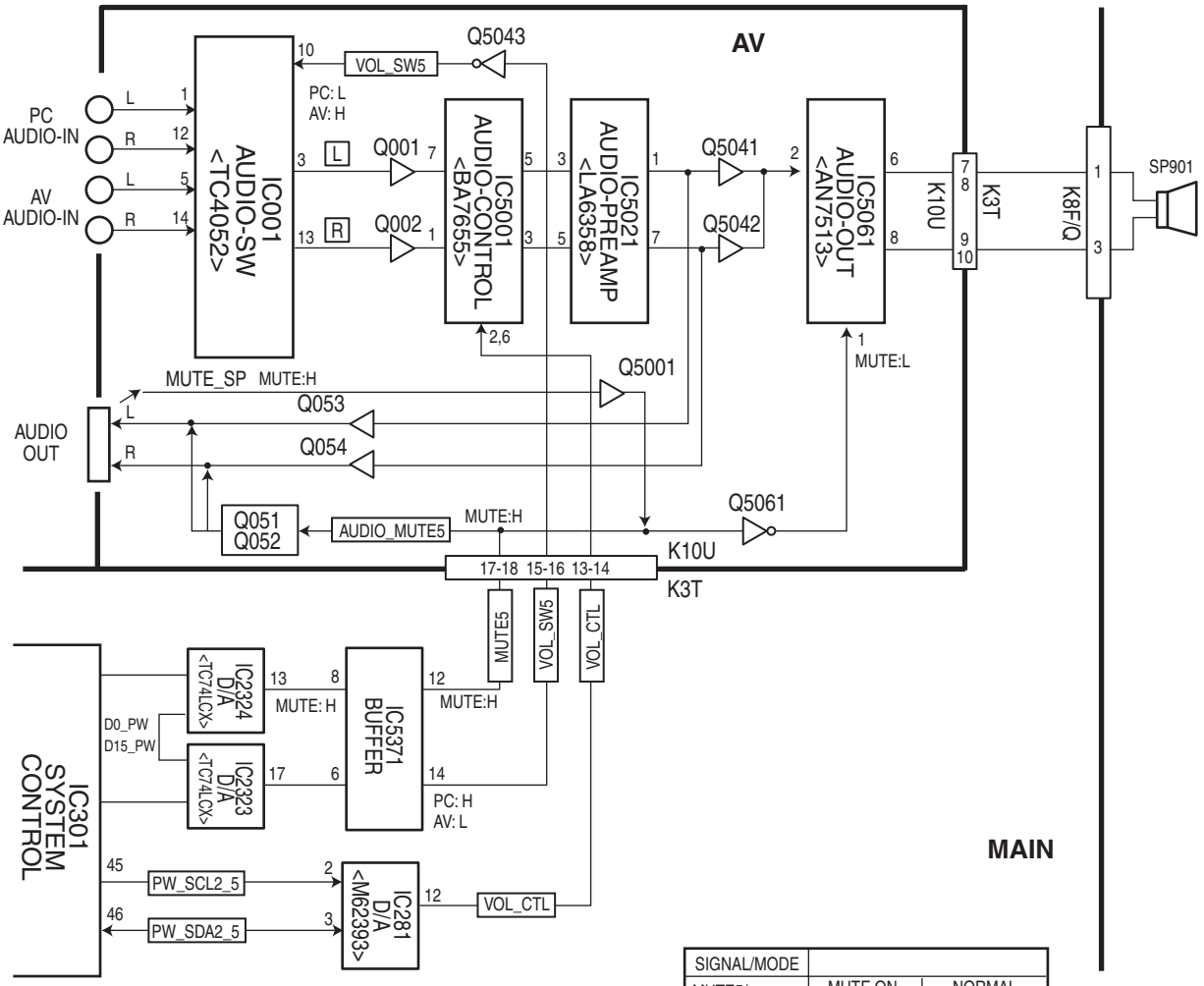
Inputs & video signal processing stage



LCD panel driving stage

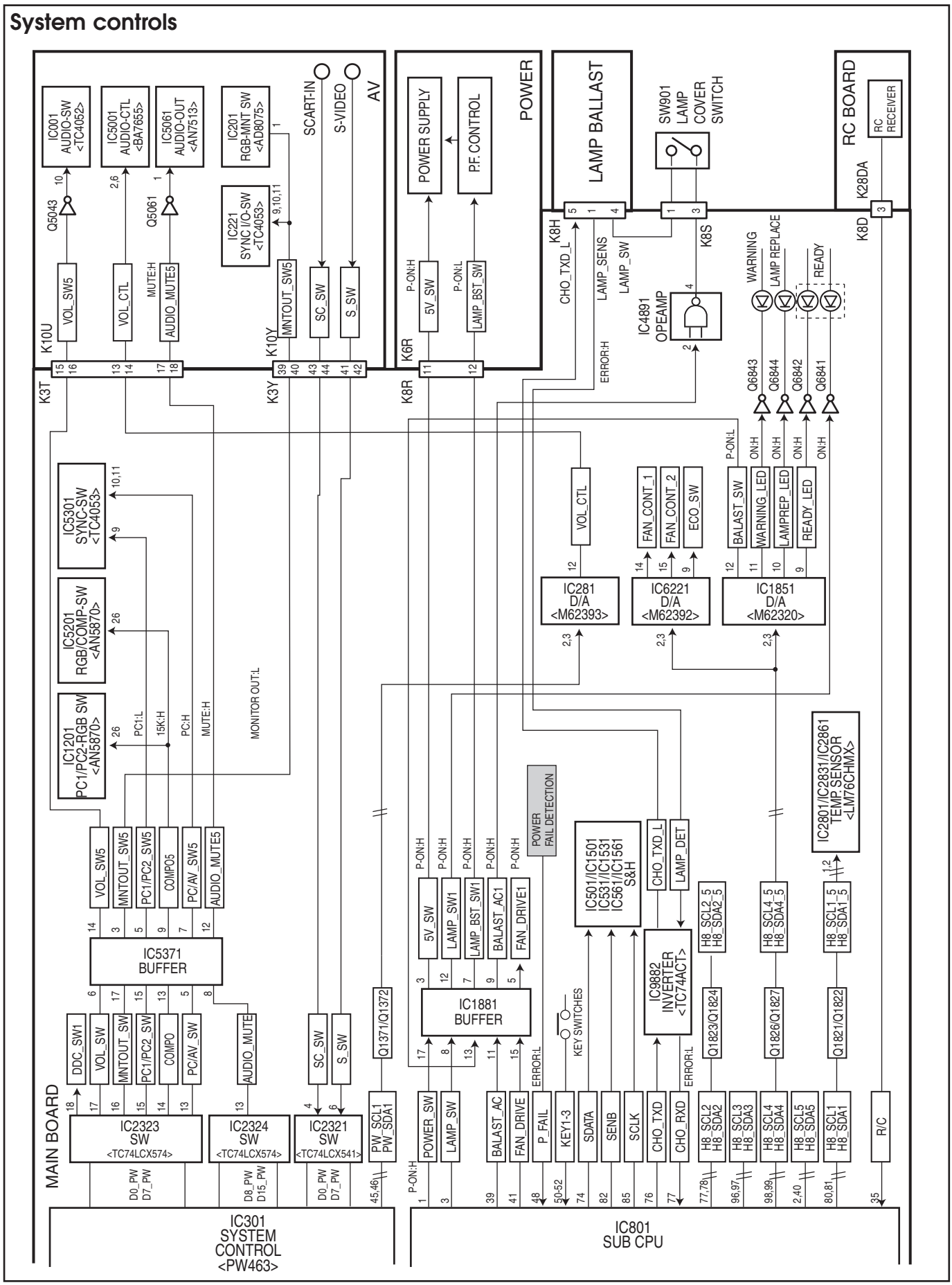


Audio signal processing circuit

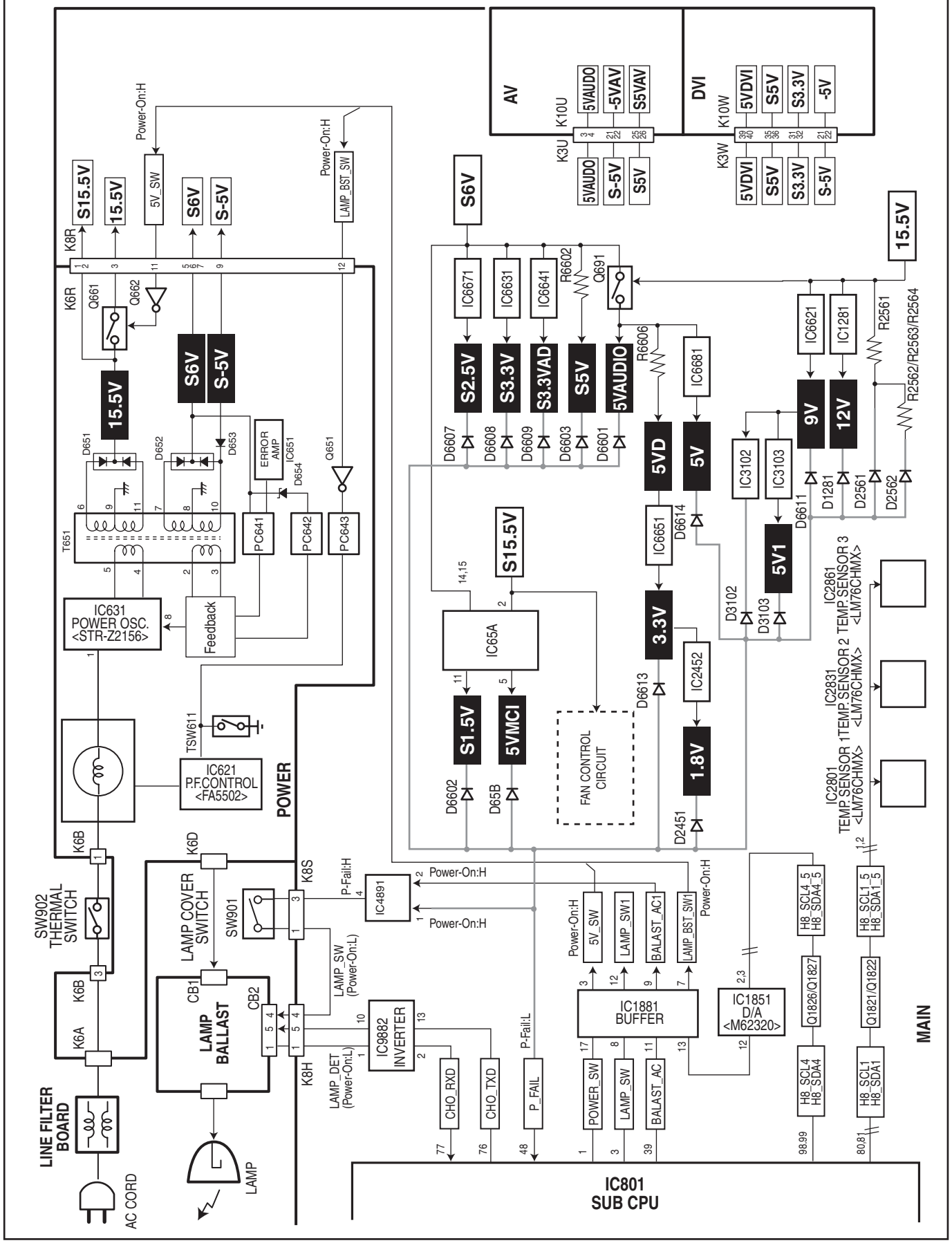


SIGNAL/MODE		
MUTE5/ AUDIO_MUTE5	MUTE ON H	NORMAL L
MUTE_SP	MUTE ON H	NORMAL L
VOL_SW5	PC H	AV L
VOL_CTL	MIN. L	MAX H

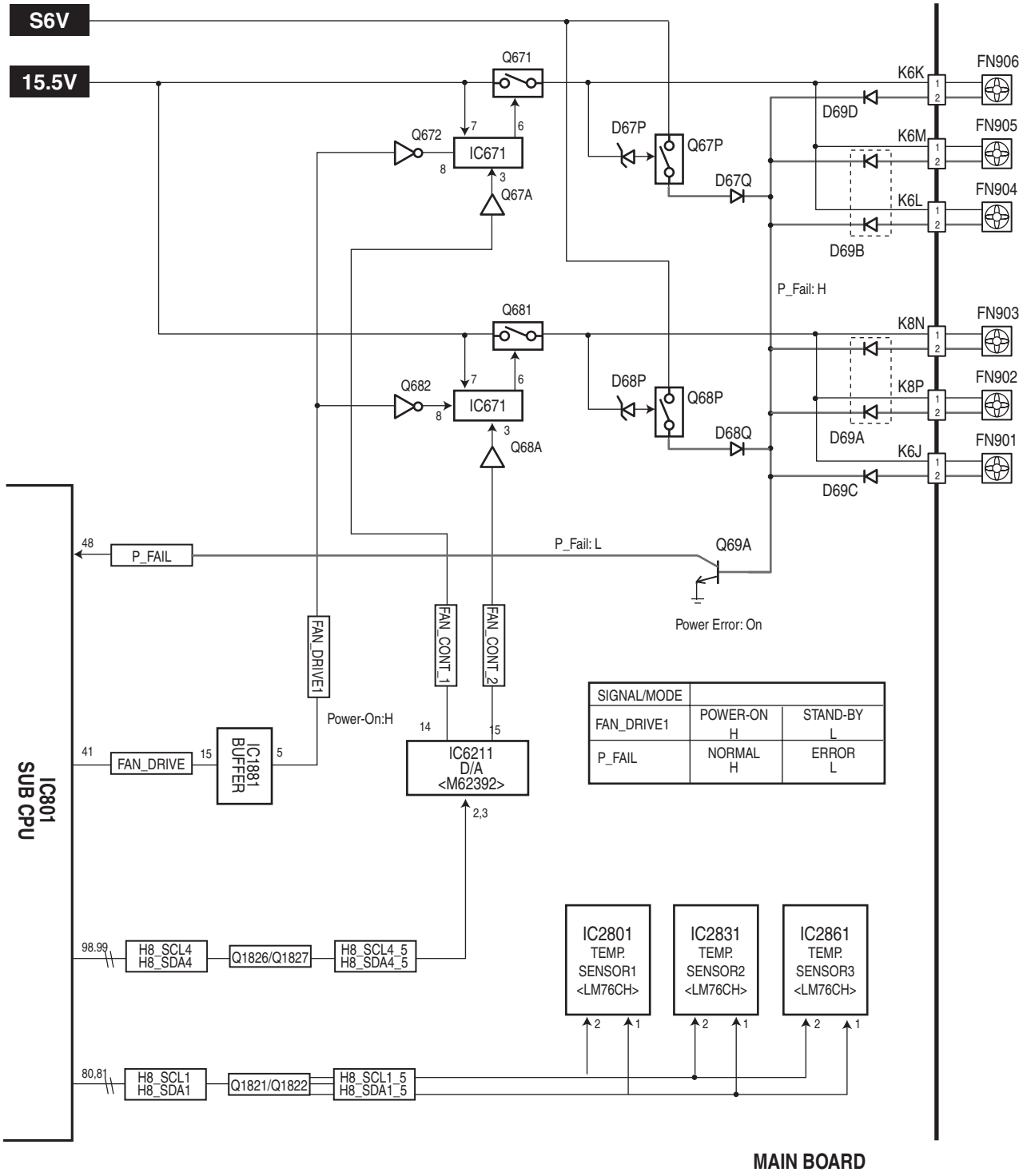
System controls



Power supply & protection circuit



Fan control circuit



SIGNAL/MODE		
FAN_DRIVE1	POWER-ON H	STAND-BY L
P_FAIL	NORMAL H	ERROR L

■ Troubleshooting

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs on the control panel. Connect the AC cord and press the Power button once and then check the LED indication.

- When all of LED indicators are not lighting, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

AC cord
F601 (Fuse)
Power board
SW902 (Thermal sw.) .....short in normal
SW902 opens when the surrounding temperature of the switch exceeds 90°C.

- When the WARNING (red) and POWER(red) indicators are flashing, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.

The internal temperature is monitored by sensor ICs, IC2801, IC2831 and IC2861 on the Main board.

- When the WARNING indicator lights red, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

The P_FAIL signal (Error: L) is sent to pin 48 of IC801<SUB CPU> when the abnormality occurred inside the projector, and then the IC801 sends the shut down signals, 5V_SW and LAMP_BST_SW, to the power supply circuit to stop the operation.

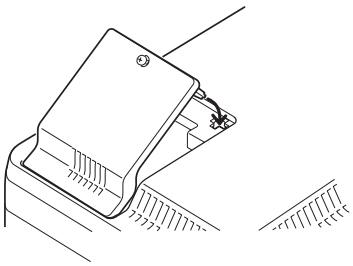
An abnormality occurs on the secondary power supply;
Check power supplies 15.5V, S15.5V, S6V, S-5V. P_FAIL signal becomes “Low” when the abnormality occurs on any of the power supply lines.

An abnormality occurs on the fan control circuit;
Check FN901, FN902, FN903, FN904, FN905, FN906 and peripheral circuit.
Check Q67P, D67P, Q68P, D68P and peripheral circuit (Over voltage detection circuit).

An abnormality occurs on the drive signals;
POWER_SW signal (Power-on: H) is output from pin 1 of IC801 and input to pin 17 of IC1881, and output from pin 3 by the name of 5V_SW.
LAMP_BALAST_SW1(Power-on: H) is output from pin 12 of IC1851(D/A) and supplied to the P.F Control IC, IC621, through the IC1881, Q651, and PC643.
BALAST_AC signal (Power-on: H) is output from pin 39 of IC801 and input to pin 11 of IC1881, and output from pin 9 by the name of BALAST_AC1. BALAST_AC1 signal is applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp balast unit through the Lamp Cover switch(SW901).
CHO_RXD signal at the pin 77 of IC801 is applied from the lamp balast unit. If the abnormality occurred on the lamp balast unit, CHO_RXD(LAMP_DET) signal becomes “High” and then IC801 shuts down the power supply circuit.

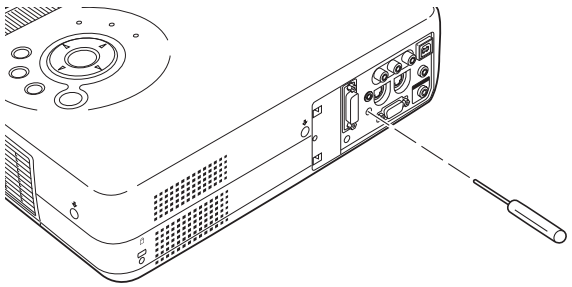
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



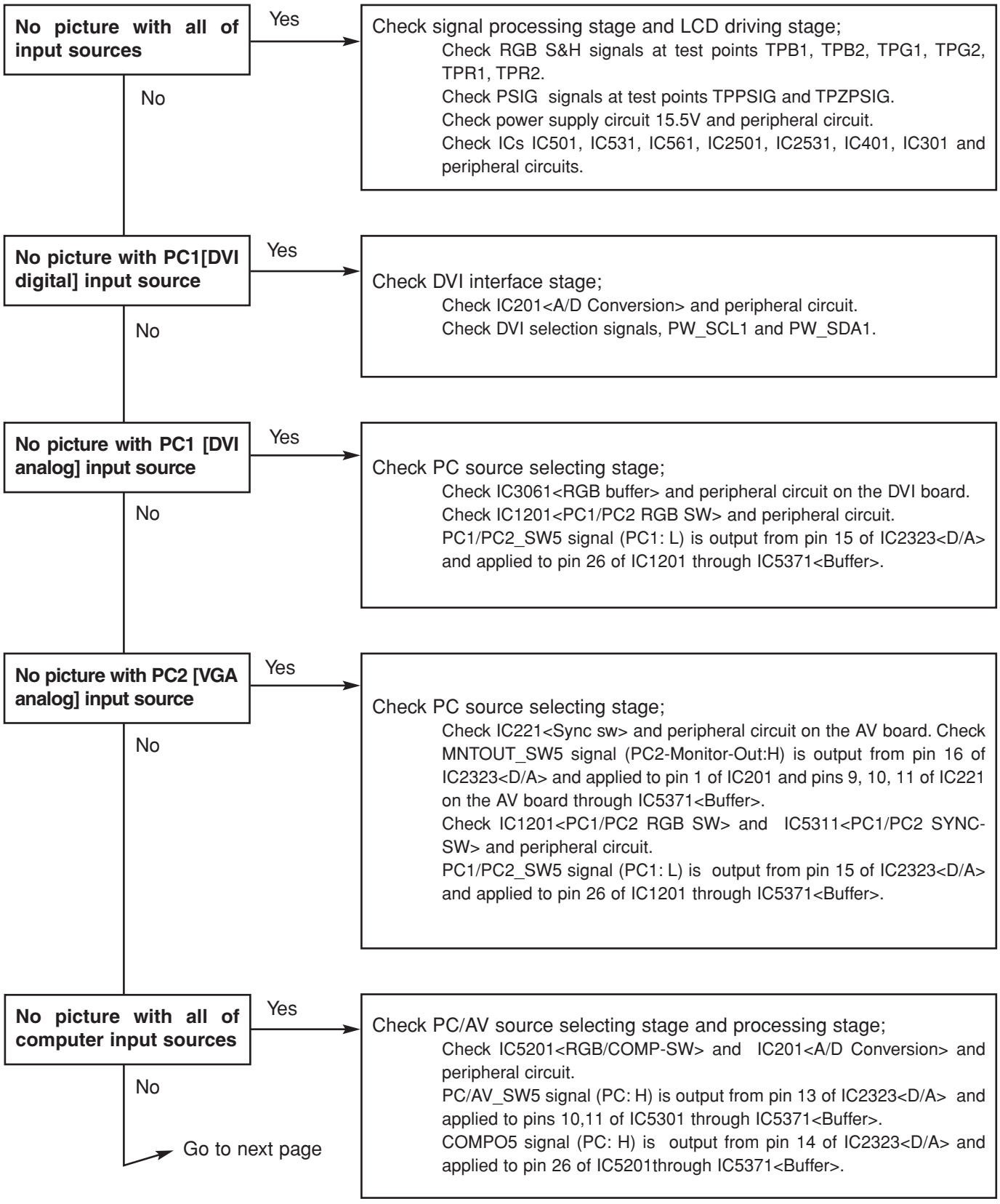
Reset switch

The microprocessor inside the projector may occasionally malfunction and does not accept any controls. In this case, press the reset switch on the rear panel with a sharp tool to restart the projector.



No Picture

Check following steps.


No picture with all of input sources
Yes
Check signal processing stage and LCD driving stage;
Check RGB S&H signals at test points TPB1, TPB2, TPG1, TPG2, TPR1, TPR2.
Check PSIG signals at test points TPPSIG and TPZPSIG.
Check power supply circuit 15.5V and peripheral circuit.
Check ICs IC501, IC531, IC561, IC2501, IC2531, IC401, IC301 and peripheral circuits.
No
No picture with PC1[DVI digital] input source
Yes
Check DVI interface stage;
Check IC201<A/D Conversion> and peripheral circuit.
Check DVI selection signals, PW_SCL1 and PW_SDA1.
No
No picture with PC1 [DVI analog] input source
Yes
Check PC source selecting stage;
Check IC3061<RGB buffer> and peripheral circuit on the DVI board.
Check IC1201<PC1/PC2 RGB SW> and peripheral circuit.
PC1/PC2_SW5 signal (PC1: L) is output from pin 15 of IC2323<D/A> and applied to pin 26 of IC1201 through IC5371<Buffer>.
No
No picture with PC2 [VGA analog] input source
Yes
Check PC source selecting stage;
Check IC221<Sync sw> and peripheral circuit on the AV board. Check MNTOUT_SW5 signal (PC2-Monitor-Out:H) is output from pin 16 of IC2323<D/A> and applied to pin 1 of IC201 and pins 9, 10, 11 of IC221 on the AV board through IC5371<Buffer>.
Check IC1201<PC1/PC2 RGB SW> and IC5311<PC1/PC2 SYNC-SW> and peripheral circuit.
PC1/PC2_SW5 signal (PC1: L) is output from pin 15 of IC2323<D/A> and applied to pin 26 of IC1201 through IC5371<Buffer>.
No
No picture with all of computer input sources
Yes
Check PC/AV source selecting stage and processing stage;
Check IC5201<RGB/COMP-SW> and IC201<A/D Conversion> and peripheral circuit.
PC/AV_SW5 signal (PC: H) is output from pin 13 of IC2323<D/A> and applied to pins 10,11 of IC5301 through IC5371<Buffer>.
COMPO5 signal (PC: H) is output from pin 14 of IC2323<D/A> and applied to pin 26 of IC5201through IC5371<Buffer>.
No
Go to next page

From previous page

No picture with S-VIDEO input source

Yes →

Check AV source selecting stage;

Check S-video signal (Y/C) on the AV board.

S-C signal is applied to pin 43 of IC3101<Video Decoder>, and S-Y signal is applied on pin 44 of IC3101.

S_SW signal (S-VIDEO:L) is input to pin 6 of IC2321<I/O>.

No

No picture with Component input source

Yes →

Check AV source selecting stage;

Check component signal (Y/Cr,Pr/Cb,Pb) on the AV board.

The component signals are applied to pins 17, 18, 19 of IC3101<Video Decoder>.

The component mode is selected by the PW_SCL2_5 and PW_SDA2_5 signal applied to pins 13 and 14 of IC3101.

No

No picture with video input source

Yes →

Check AV source selecting stage;

Check composite video signal (Video) on the AV board.

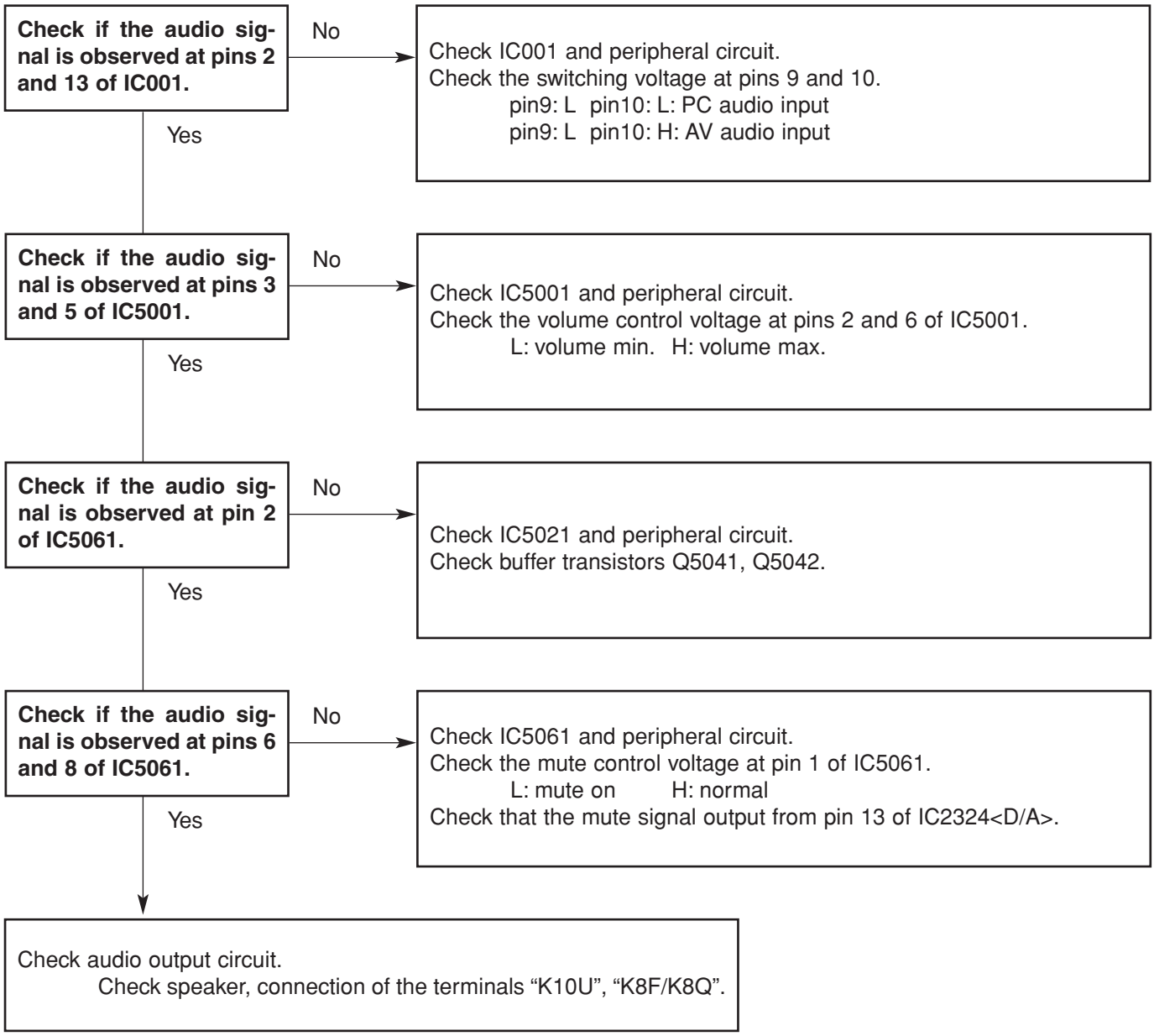
Check IC2101<Y/C Separation> and IC3101<Video Decoder> and peripheral circuit.

VIDEO_CR, VIDEO_CB, VIDEO_Y, AV_HSYNC and AV_VSYNC signals are output from pin 23, 22,21, 9 and 4 of IC3101.

COMPO5 signal (PC: H) is output from pin 14 of IC2323<D/A> and applied to pin 26 of IC5201 through IC5371<Buffer IC>.

No Sound

Check following steps.


Check if the audio signal is observed at pins 2 and 13 of IC001.
No
Check IC001 and peripheral circuit.
Check the switching voltage at pins 9 and 10.
pin9: L pin10: L: PC audio input
pin9: L pin10: H: AV audio input
Yes
Check if the audio signal is observed at pins 3 and 5 of IC5001.
No
Check IC5001 and peripheral circuit.
Check the volume control voltage at pins 2 and 6 of IC5001.
L: volume min. H: volume max.
Yes
Check if the audio signal is observed at pin 2 of IC5061.
No
Check IC5021 and peripheral circuit.
Check buffer transistors Q5041, Q5042.
Yes
Check if the audio signal is observed at pins 6 and 8 of IC5061.
No
Check IC5061 and peripheral circuit.
Check the mute control voltage at pin 1 of IC5061.
L: mute on H: normal
Check that the mute signal output from pin 13 of IC2324<D/A>.
Yes
Check audio output circuit.
Check speaker, connection of the terminals “K10U”, “K8F/K8Q”.

■ Control Port Functions

● System Control & I/O Port Table (IC801)

Pin No.	Name	Function Name	Function	I/O	Action
1	PE5/D5	POWER_SW	Power_SW	O	"H":On
2	PE6/D6	SCL 5	IIC Bus 5 SCL	O	"L": active
3	PE7/D7	LAMP_SW	Lamp LED	O	"H": On
4	PD0/D8	DATA0	Data Bus 0	I/O	-
5	PD1/D9	DATA1	Data Bus 1	I/O	-
6	PD2/D10	DATA2	Data Bus 2	I/O	-
7	PD3/D11	DATA3	Data Bus 3	I/O	-
8	PD4/D12	DATA4	Data Bus 4	I/O	-
9	PD5/D13	DATA5	Data Bus 5	I/O	-
10	PD6/D14	DATA6	Data Bus 6	I/O	-
11	PD7/D15	DATA7	Data Bus 7	I/O	-
12	CVCC	CVCC	Power	-	-
13	PC0/A0	ADDRESS0	Address Bus 0	O	-
14	VSS	VSS	Vss	-	-
15	PC1/A1	ADDRESS1	Address Bus 1	O	-
16	PC2/A2	ADDRESS2	Address Bus 2	O	-
17	PC3/A3	ADDRESS3	Address Bus 3	O	-
18	PC4/A4	ADDRESS4	Address Bus 4	O	-
19	PC5/A5	ADDRESS5	Address Bus 5	O	-
20	PC6/A6	ADDRESS6	Address Bus 6	O	-
21	PC7/A7	ADDRESS7	Address Bus 7	O	-
22	PB0/A8/TIOCA3	ADDRESS8	Address Bus 8	O	-
23	PB1/A9/TIOCB3	ADDRESS9	Address Bus 9	O	-
24	PB2/A10/TIOCC3	ADDRESS10	Address Bus 10	O	-
25	PB3/A11/TIOCD3	ADDRESS11	Address Bus 11	O	-
26	PB4/A12/TIOCA4	ADDRESS12	Address Bus 12	O	-
27	PB5/A13/TIOCB4	ADDRESS13	Address Bus 13	O	-
28	PB6/A14/TIOCA5	ADDRESS14	Address Bus 14	O	-
29	PB7/A15/TIOCB5	ADDRESS15	Address Bus 15	O	-
30	PA0/A16	ADDRESS16	Address Bus 16	O	-
31	PA1/A17/TxD2	Tx	RS232C TxD	O	"L": active
32	PA2/A18/RxD2	Rx	RS232C RxD	I	"L": active
33	PA3/A19/SCK2	SP0	PW463 Communication	O	"H": active
34	P10/TIOCA0/A20	SP1	PW463 Communication	O	"H": active
35	P11/TIOCB0/A21	R/C	Remote Control Input	I	"L": active
36	P12/TIOCC0/TCLKA/A22	USB_RESET	USB Reset Signal	O	"L": active
37	P13/TIOCD0/TCLKB/A23	USB_BRST	USB_BRST	O	"L": on
38	P14/TIOCA1/IRQ0	PS0	PW463 Communication	I	"H": active
39	P15/TIOCB1/TCLKC	BLAST_ON	LampBallast Control Signal(DC or AC)	O	PWM Output
40	P16/TIOCA2/IRQ1	SDA 5	IIC Bus 5 SDA	I/O	"L": active
41	P17/TIOCB2/TCLKD	FAN ON/OFF	Fan Drive Output	O	"H": on
42	AVSS	Avss	Ground for A/D	-	-
43	P97/DA1	PIXEL WRITE	Write for Pixel	I	"L": PW Write
44	P96/DA0	PS1	PW463 Communication	I	"L": active
45	P47/AN7	OPT2	Option Input	I	"L": XGA, "H": SVGA
46	P46/AN6	USB_VBUS	USB VBUS Input	I	"H": USB
47	P45/AN5	LAMP_ERR	Lamp Error	I	H:Lamp Error
48	P44/AN4	POWER_FAIL	Power Fail (Fail less than 2V)	I	
49	P43/AN3	OPT1	Destination Option	I	
50	P42/AN2	KEY3	Key Input 3 (A/D Input)	I	
51	P41/AN1	KEY2	Key Input 2 (A/D Input)	I	
52	P40/AN0	KEY1	Key Input 1 (A/D Input)	I	
53	Vref	Vref	Reference Voltage for Analog	-	-
54	AVCC	AVCC	Power for A/D	-	-
55	MD0	MD0	Operation Mode Control2	I	"L" Fixed
56	MD1	MD1	Operation Mode Control1	I	"H" Fixed
57	OSC2	OSC2	Sub Clock Output (Not used)	O	open
58	OSC1	OSC1	Sub Clock Input (Not used)	I	GND
59	RES	RESET	Reset Input	I	Reset at "L"-> "H"
60	NMI	NMI	Nonmaskable Input	I	"H" Fixed
61	STBY	STBY	Standby	I	-
62	VCC	VCC	Vcc	-	-
63	XTAL	XTAL	X'TAL Input	I	-
64	VSS	VSS	GND	-	-
65	EXTAL	EXTAL	X'TAL Output	O	-
66	FWE	FEW	Write Enable Input	I	"H": Enable

Pin No.	Name	Function Name	Function	I/O	Action
67	MD2	MD2	Operation Mode Control2	I	"H" Fixed
68	PF7/Ø	Ø	ØOutput	O	-
69	PF6/AS	AS	ASOutput	O	-
70	PF5/RD	RD	Read Signal	O	SRAM Control
71	PF4/HWR	HWR	Write Signal (Upper 8 bits)	O	SRAM Control
72	PF3/LWR/ADTRG/IRQ3	SRAM_INTR	DualRam Interrupt	I	"L"active
73	PF2/WAIT	TURBO_CS	Chip Select for Turbo Gate Array	O	"H": active
74	PF1/BACK/BUZZ	SDATA	Serial Data output	O	"L": active
75	PF0/BREQ/IRQ2	FLASH_MODE	Flash Enable Control	O	
76	P30/TxD0	Lamp TX	Choko TxD	O	"L": active
77	P31/RxD0	Lamp RX	Choko RxD	I	"L": active
78	P32/SCK0/SDA1/IRQ4	SDA 2	IIC Bus 2 SDA	I/O	"L": active
79	P33/TxD1/SCL1	SCL 2	IIC Bus 2 SCL	O	"L": active
80	P34/RxD1/SDA0	SDA 1	IIC Bus 1 SDA	I/O	"L": active
81	P35/SCK1/SCL0/IRQ5	SCL 1	IIC Bus 1 SCL	O	"L": active
82	P36	SENB	S/H Enable	O	"H": active
83	P77/TXD3	MCI TX	Viewer TxD	O	"L": active
84	P76/RXD3	MCI RX	Viewer RxD	I	"L": active
85	P75/TMO3/SCK3	SCLK	Serial Data Output	O	
86	P74/TMO2/MRES	M-RESET	manual Reset	I	Reset at "L"
87	P73/TMO1/CS7				
88	P72/TMO0/CS6	CS6	DualRam Chip Select	O	"H": active
89	P71/TMRI23/TMCI23/CS5	OPT_ECO	Eco Mode Option	I	"H": Eco"
90	P70/TMRI01/TMCI01/CS4	OPT_BRAND2	Option Setting	I	
91	PG0/IRQ6	VSYNC	PW463DVH Input for Choko	I	"H": active
92	PG1/CS3/IRQ7	USB_INTR	USB interrupt Signal	I	"L": active
93	PG2/CS2	CS2	SRAM Chip Select	O	"L": active
94	PG3/CS1	CS1	USB Chip Select	O	"L": active
95	PG4/CS0	BLAST_SW	Lamp Ballast Drive On/Off (Not used)	O	
96	PE0/D0	SDA 3	IIC Bus 3 SDA	I/O	"L": active
97	PE1/D1	SCL 3	IIC Bus 3 SCL	O	"L": active
98	PE2/D2	SCL 4	IIC Bus 4 SCL	O	"L": active
99	PE3/D3	SDA 4	IIC Bus 4 SDA	I/O	"L": active
100	PE4/D4	PW_RESET	PW463 Reset Output	O	Reset at "L"->"H"->"L"

● IIC Bus DA Converter (M62393, IC281) Port Functions

Pin No.	Name	Function	Action
1	R	Reset	Fixed "H"
2	SCL	IIC SCL	Active "L"
3	SDA	IIC SDA	Active "L"
4	AO5	Not used	
5	AO6	Not used	
6	AO7	Not used	
7	AO8	Not used	
8	VrefL		D/A converter lower ref. voltage Connected to GND
9	VrefU1		D/A converter upper ref. voltage (CH5~CH8) Connected to Vcc
10	GND	GND	GND
11	VrefU2		D/A converter upper ref. voltage (CH1~CH4) Connected to Vcc
12	AO1	VOL_CTL	DC Control for sound volume L:min., H: max.
13	AO2	RCLP	Not used
14	AO3	GCLP	Not used
15	AO4	BCLP	Not used
16	Vcc	5 V	Vcc(5V)
17	Vdd	5 V	Vdd(5V)
18	CS2	Chip Select 2	Fixed "H
19	CS1	Chip Select 1	Fixed "H"
20	CS0	Chip Select 0	Fixed "L"

● IIC Bus I/O Expander (M62320, IC1851) Port Functions

Pin No.	Name	Function	Action	I/O
1	S	Reset	Open	-
2	SCL	IIC SCL	"L": Active	-
3	SDA	IIC SDA	"L": Active	-
4	D0	CARD_IN / CMD_ENBL	"MCI: "L": CARD Yes: "H": CARD no W-LAN:"L": Wireless "H": PC Control	IN
5	D1	VIEWER_ON	"L": VIEWER Unit Equipped	IN
6	D2	WLAN_IN		
7	D3	USB_VBUS_IN	"H": USB Connection	IN
8	VSS	GND	-	-
9	D4	WARNING_LED	"H": on "L": off	OUT
10	D5	LAMPREP_LED	"H": on "L": off	OUT
11	D6	READY_LED	"H": on "L": off	OUT
12	D7	BLAST_SW	"H": on "L": off	OUT
13	VDD	5V	Vcc(Standby 5V)	-
14	CS2	Chip Select 2	"L": Fixed	-
15	CS1	Chip Select 1	"L": Fixed	-
16	CS0	Chip Select 0	"H": Fixed	-

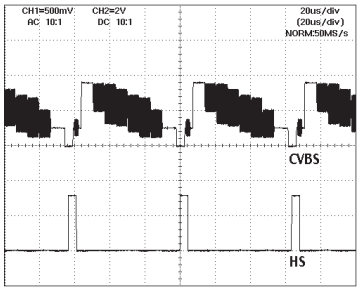
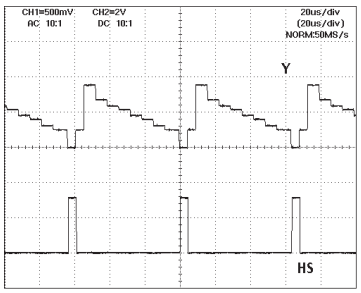
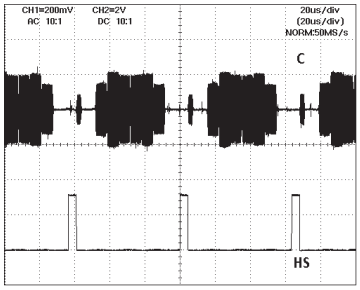
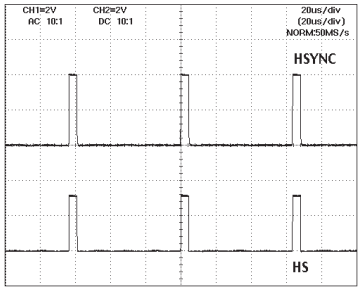
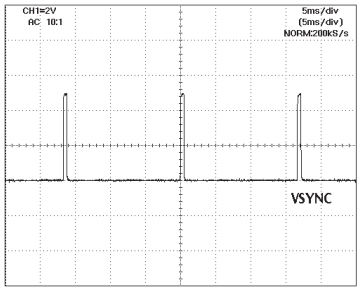
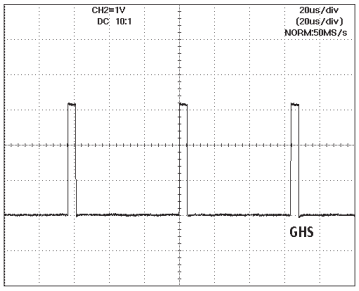
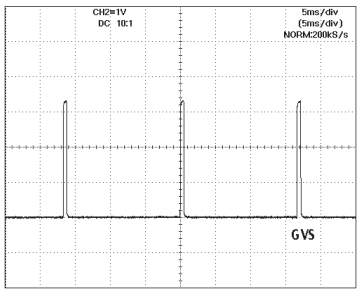
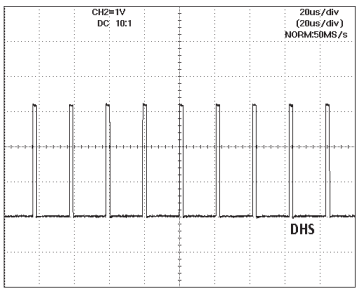
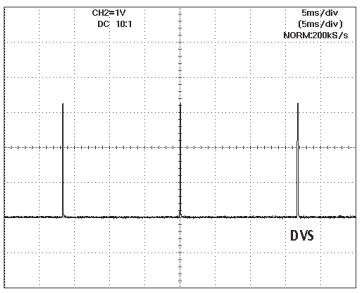
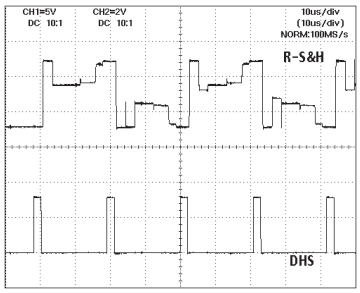
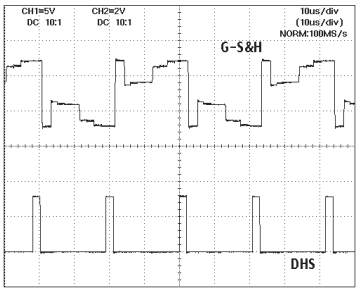
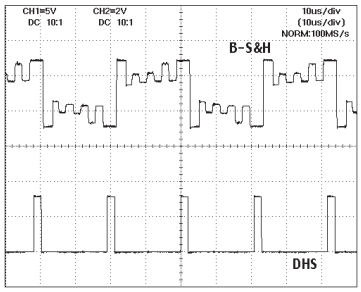
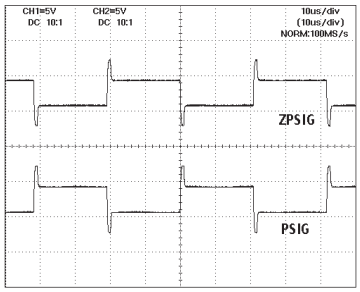
● IIC Bus DA Converter (M62392, IC6211) Port Functions

Pin No.	Name	Function	Action
1	R	Reset	"H": Fixed
2	SCL	IIC SCL	"L": Active
3	SDA	IIC SDA	"L": Active
4	Ao7	RCCONT1	Remote Control Code 0 - 7 Select
5	Ao8	RCCONT2	Remote Control Code 0 - 7 Select
6	Ao9	RCCONT3	Remote Control Code 0 - 7 Select
7	Ao10	DDC_SW2	"L": H8 "H": PC
8	Ao11	RS232C_SW	"L": H8 "H": PW
9	Ao12	ECO	"L": Eco off "H": Eco on
10	VrefL		Lower Ref. Voltage for D/A Convertor GND
11	VrefU1		Lower Ref. Voltage for D/A Converter(CH7~CH12)Vcc(Standby 5V)
12	GND	GND	GND
13	VrefU2		Upper Ref. Voltage for D/A Convertor CH1~CH6)Vcc(Standby 5V)
14	Ao1	FAN_CONT_1	0xFFh:min 0x00h:Max
15	Ao2	FAN_CONT_2	0xFFh:min 0x00h:Max
16	Ao3	PLLSTB	CXD3536 reset
17	Ao4	XCLR2	CXD3536 reset
18	Ao5	XCLR3	CXD3536 reset
19	Ao6	MOUSE_Reset	Reset wireless Mouse Reset at H->L->H
20	Vcc	Power for Digital	Vcc(Standby 5V)
21	Vdd	Power for Analog	Vcc(Standby 5V)
22	CS2	Chip Select 2	"H": Fixed
23	CS1	Chip Select 1	"H": Fixed
24	CS0	Chip Select 0	"L": Fixed

● Parallel Bus DA & I/O Port Functions

IC Ref. No	Pin	I/O	Signal Name	Function	Note
IC2321	1	I	CS_IN		
	2	I		Not used	
TC74LCX541	3	I			
	4	I	SC_SW	Scart Selection SIgnal input	L: Scart on
	5	I			
	6	I	S_SW	S-Video Selection Signal input	L: S-Video on
	7	I	CARD_IN	Imager Card Signal input	L: Imager on
	8	I	W_LAN_IN	Wireless LAN Signal input	L: Wireless LAN on
	9	I	VIEWER_ON	Viewer Unit Signal input	L: Viewer Unit on
IC2322	1	I	CS_IN		
	2	I	VSYNC_DET	V-Sync Signal input	Not used
TC74LCX541	3	I			
	4	I			
	5	I			
	6	I			
	8	I			
	9	I			
IC2323	12	O	DVI_SW_N	DVI Input switch	DVI HDCP-in:High
TC74LCX574	13	O	PC/AV_SW	PC/AV switch	PC: High
	14	O	COMPO	Component Mode switch	Component in:Low
	15	O	PC1/PC2_SW	PC1/PC2 Mode switch	PC1: Low
	16	O	MNTOUT	PC2 Monitor Output switch	Monitor-out:Low
	17	O	VOL_SW	PC/AV Audio switch	PC Audio in:High
	18	O	DDC_SW1	DDC switch	
	19	O	Not used		
IC2324	12	O	MOUSE/CPU_SW		
TC74LCX574	13	O	AUDIO_MUTE	Audio Mute switch	Mute-on: High
	14	O	Not used		
	15	O	Not used		
	16	O	Not used		
	17	O	Not used		
	18	O	Not used		
	19	O	Not used		

■ Waveform

CVBS <K3Y-51>	Y signal <IC3101-5>	C signal <IC3101-7>
		
HSYNC signal <IC3101-9>	**VSYNC signal <IC3101-4>**	**GHS signal <TGHS_1>**
		
GVS signal <TGVS>	**DHS signal <TDHS>**	**DVS signal <TDVS>**
		
R-S&H signal <TPR1>	**G-S&H signal <TPG1>**	**B-S&H signal <TPB1>**
		
PSIG signal <TPPSIG/TPZPSIG>		
		

■ Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

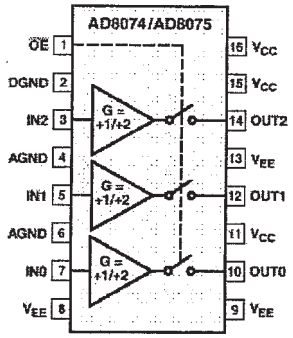
Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

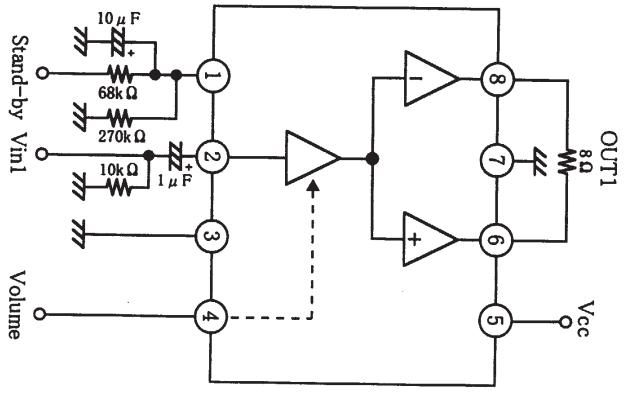
Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ IC Block Diagrams

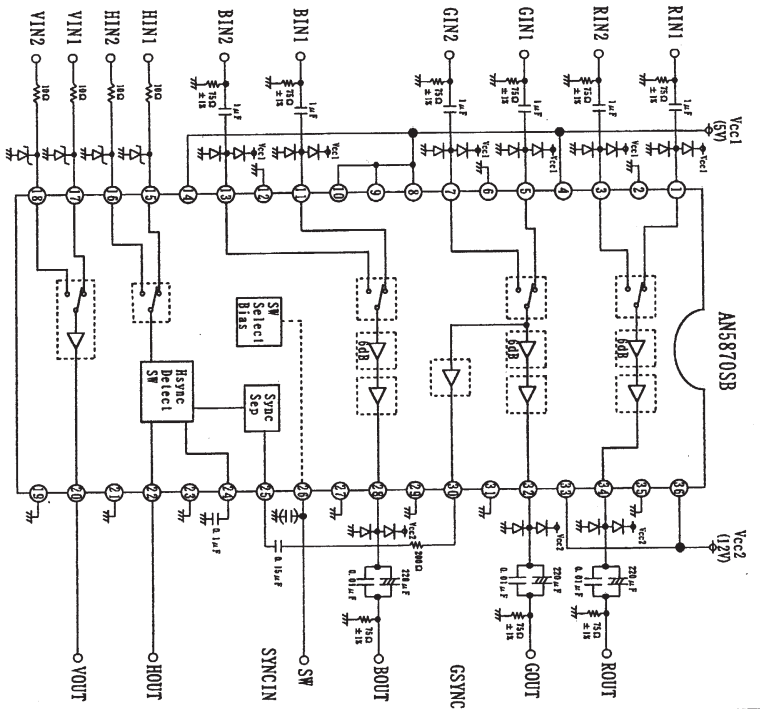
● AD8075 <Selector, IC201>



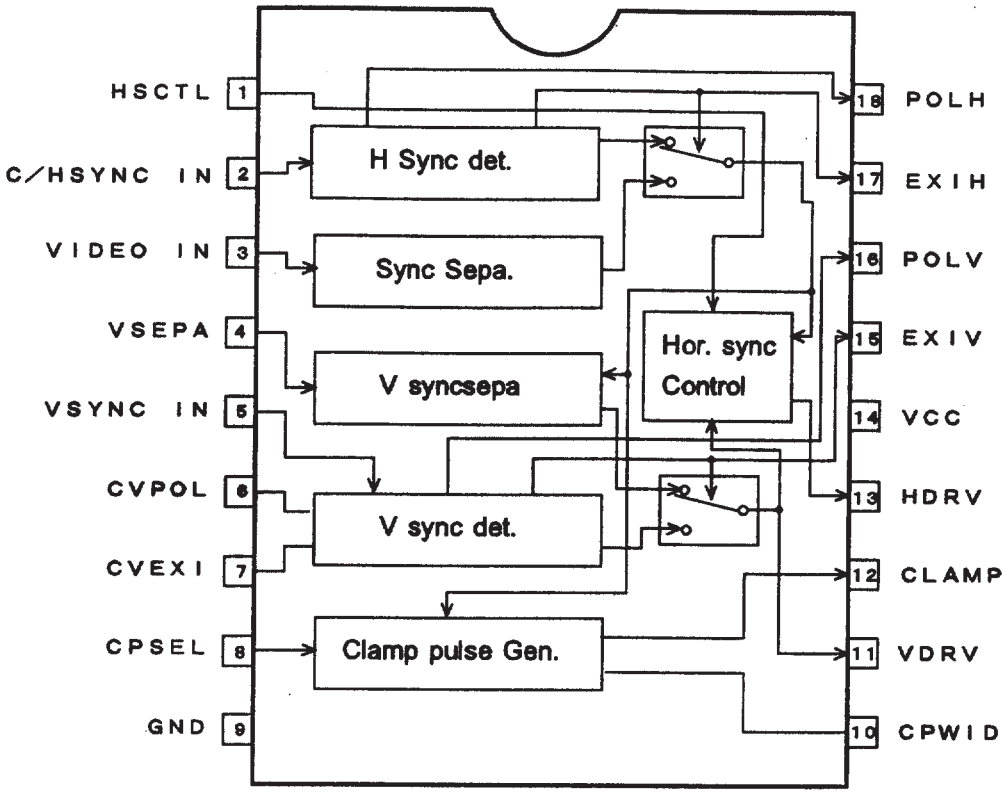
● AN7513 <Audio-Output, IC5601>



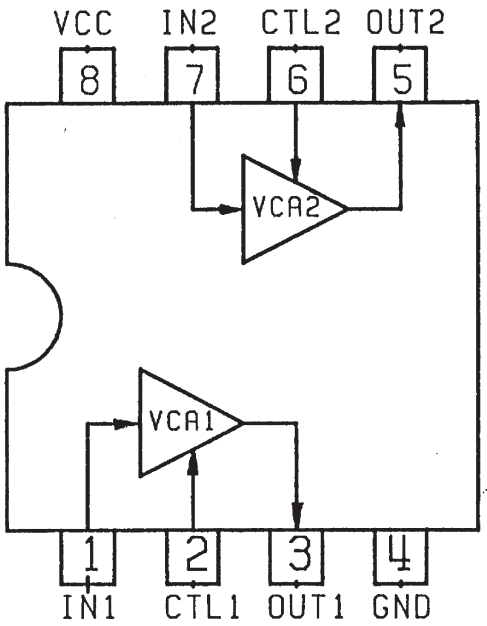
● AN5870 <RGB,SYNC-SW, IC1201, IC5201>



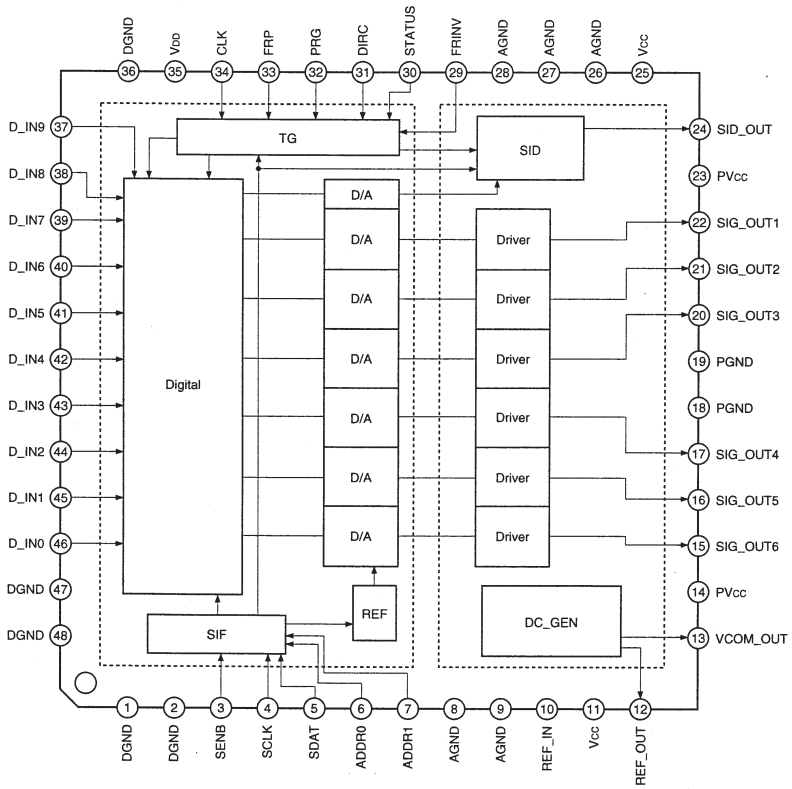
● BA7078 <Sync Separator, IC5341>



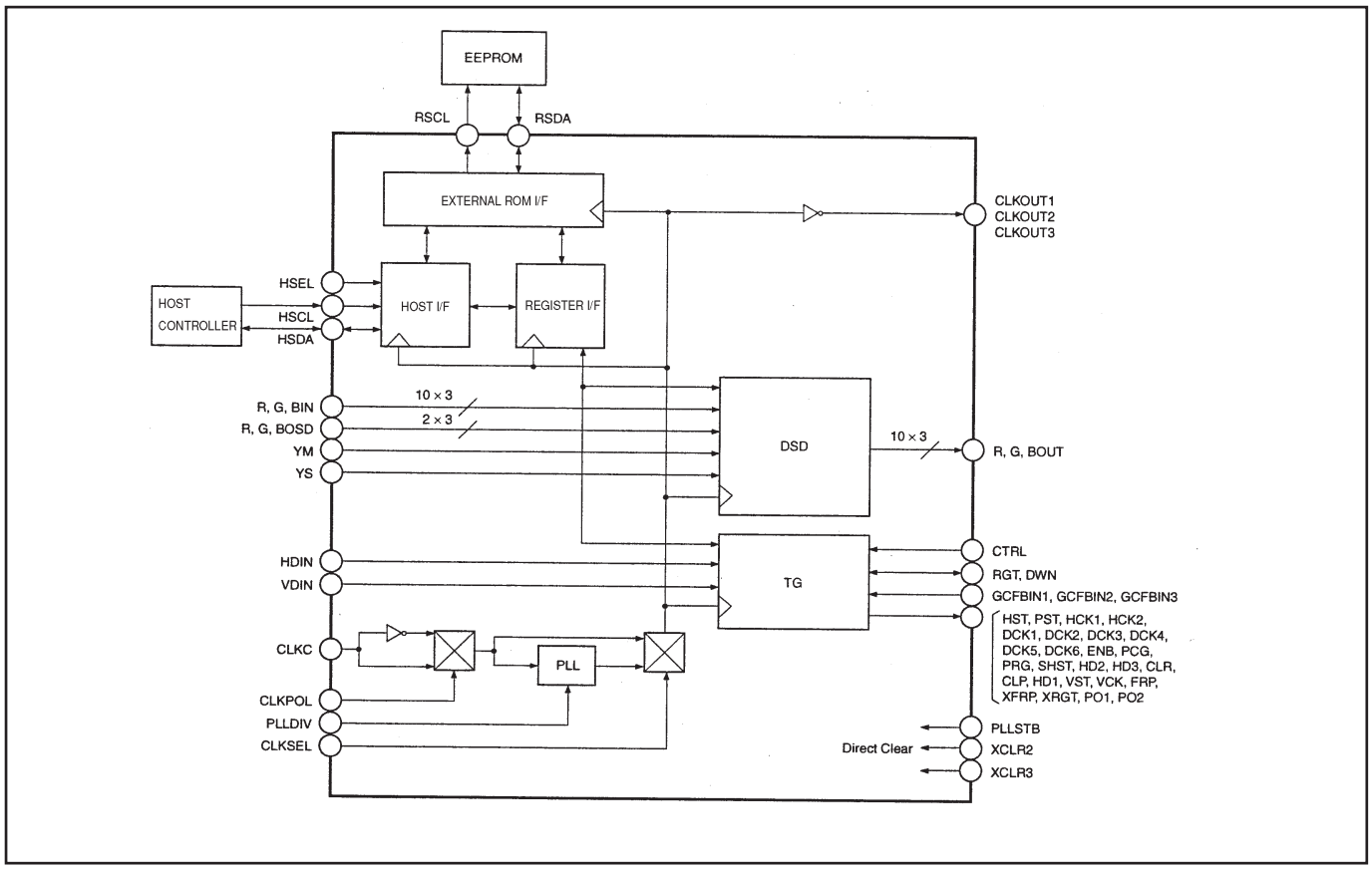
● BA7655<Audio Control, IC5001>



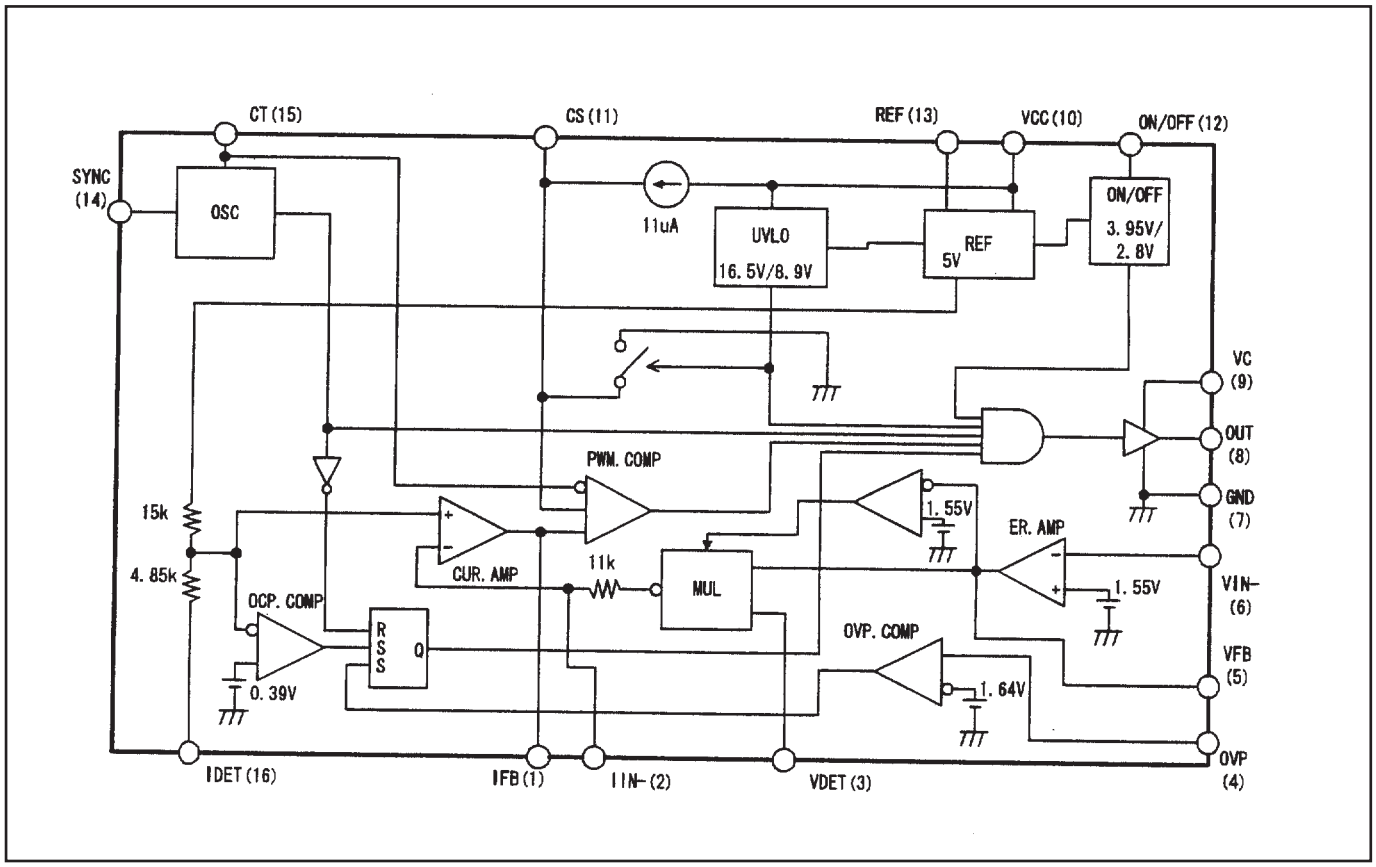
● CXA7005R <D/A, S/H-LCD Driver, IC501, IC530, IC561>



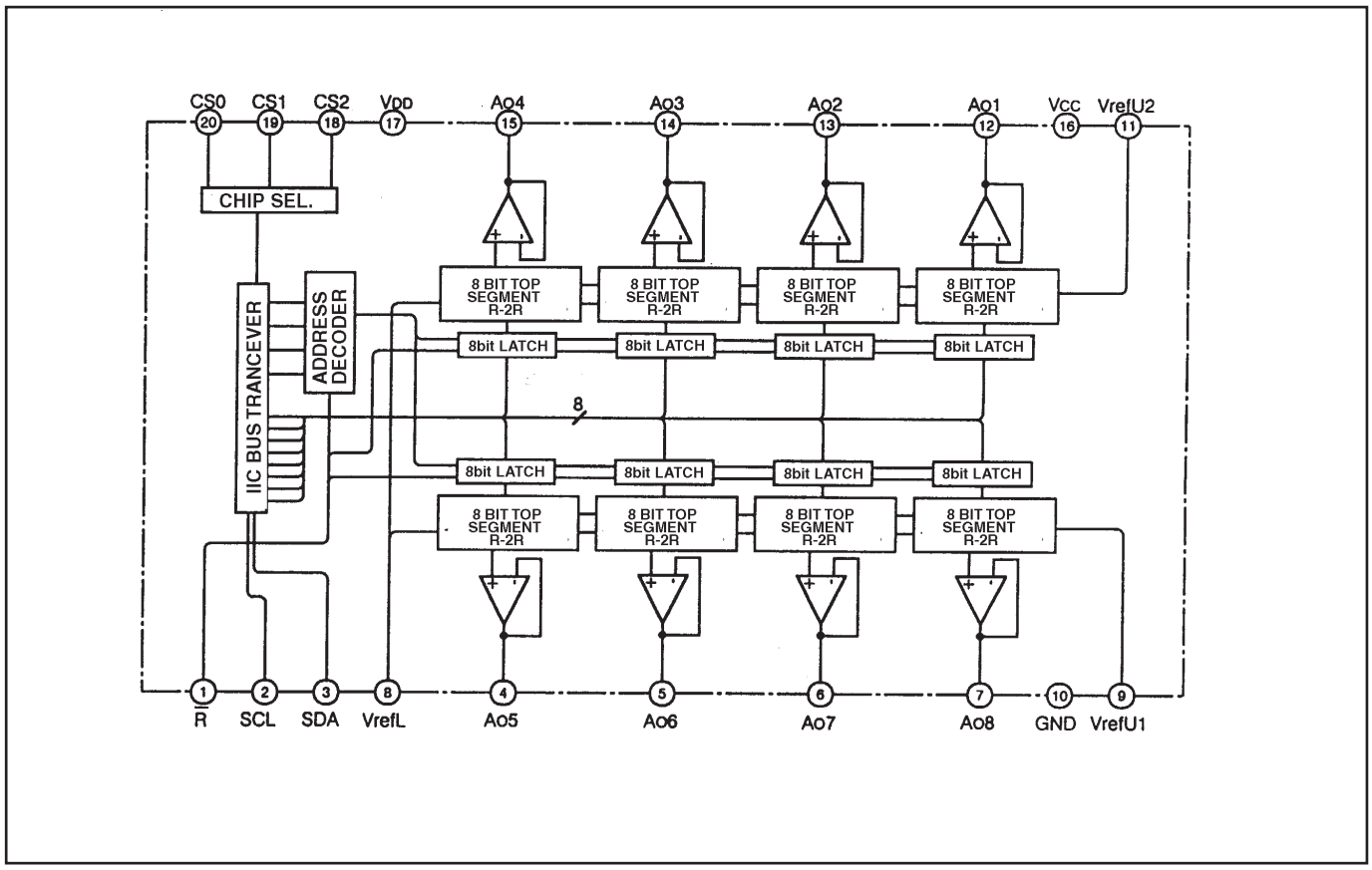
● CXD3536 <LCD Driver, IC401>



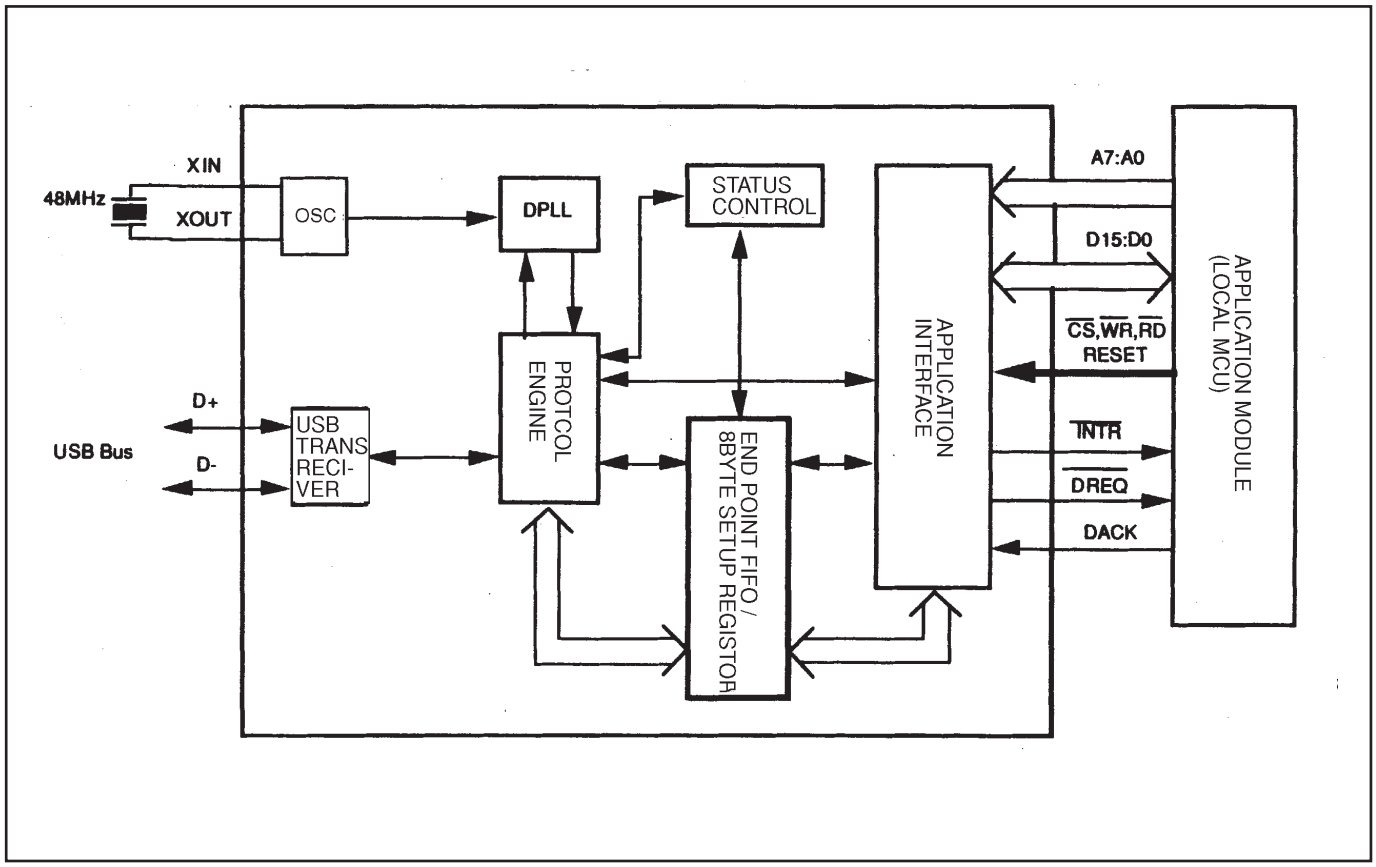
● FA5502 <P.F. Control, IC621>



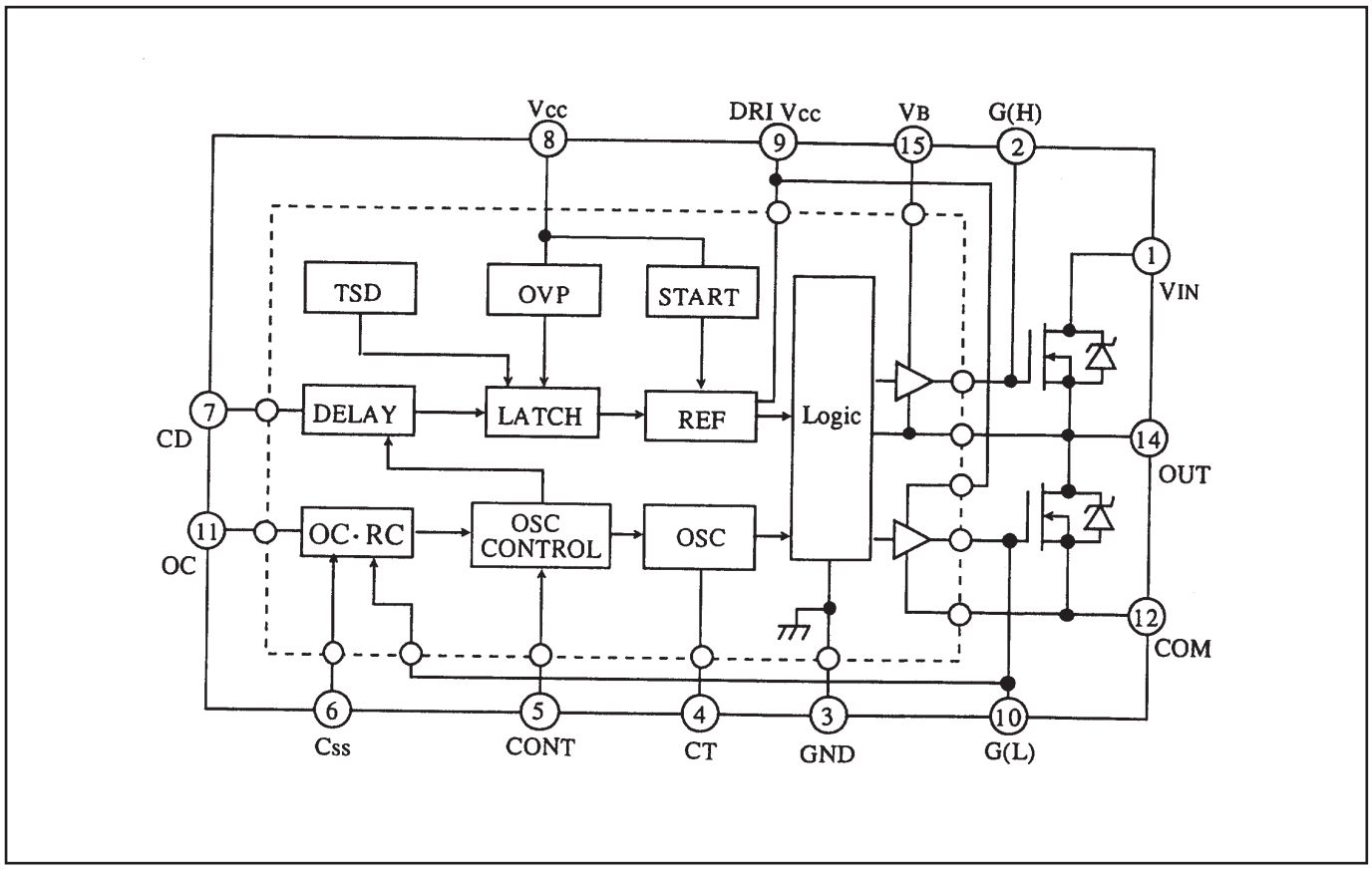
● M62392, M62393 <D/A, IC6271, IC281>



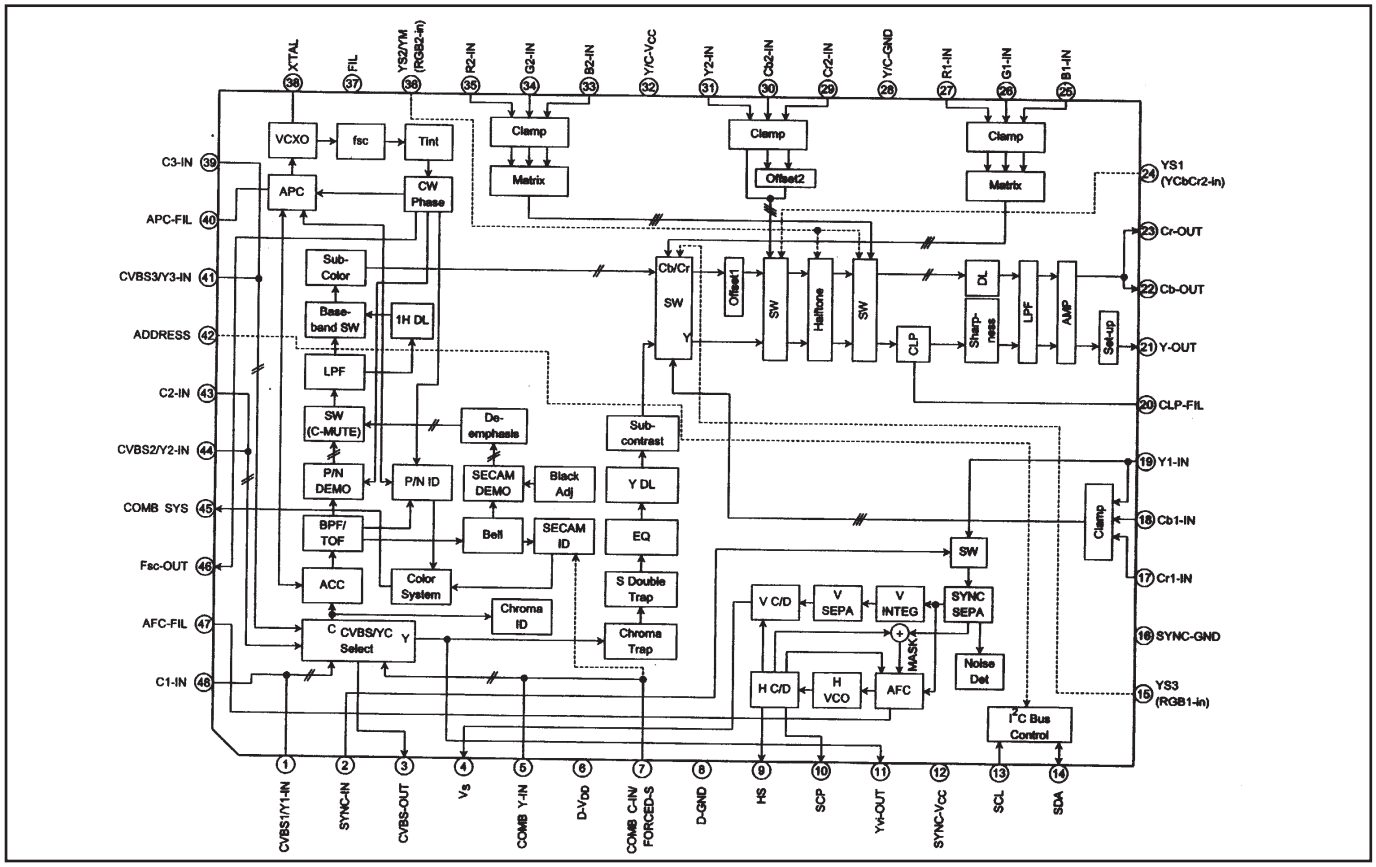
● ML60851 <USB Driver, IC9801>



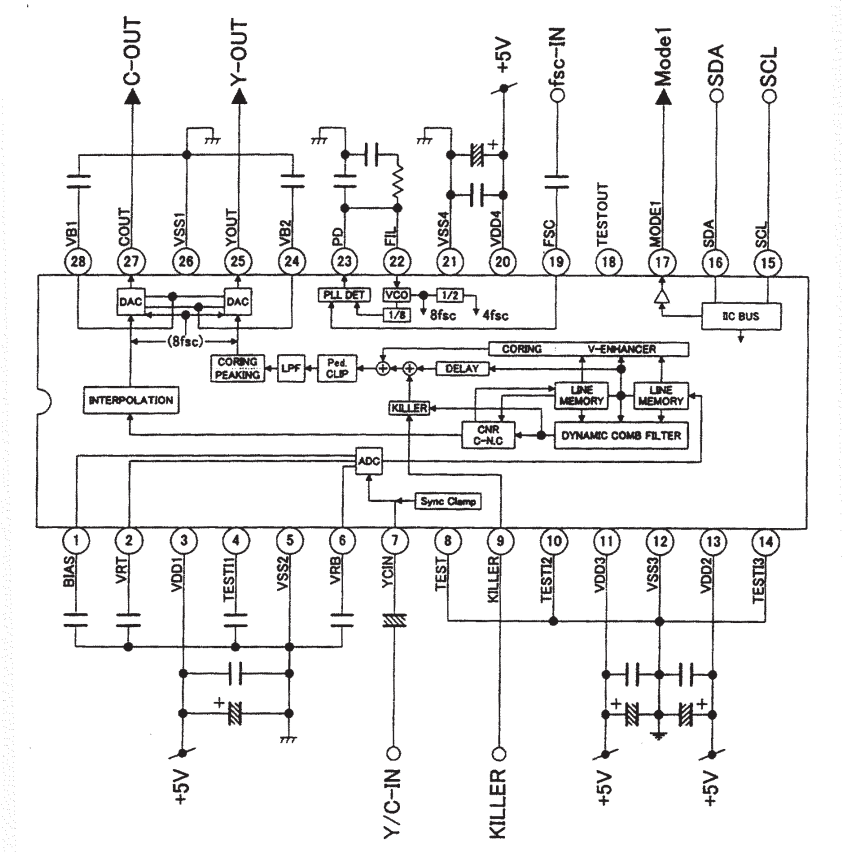
● STR-Z2156 <Power Switching Control, IC631>



● TB1274<Video Decoder, IC3101>



● TC90A69F <Y/C Separator, IC2101>



■ Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

- 100P — Rated value: P=pico farad, U=micro farad
- CERAMIC — Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient

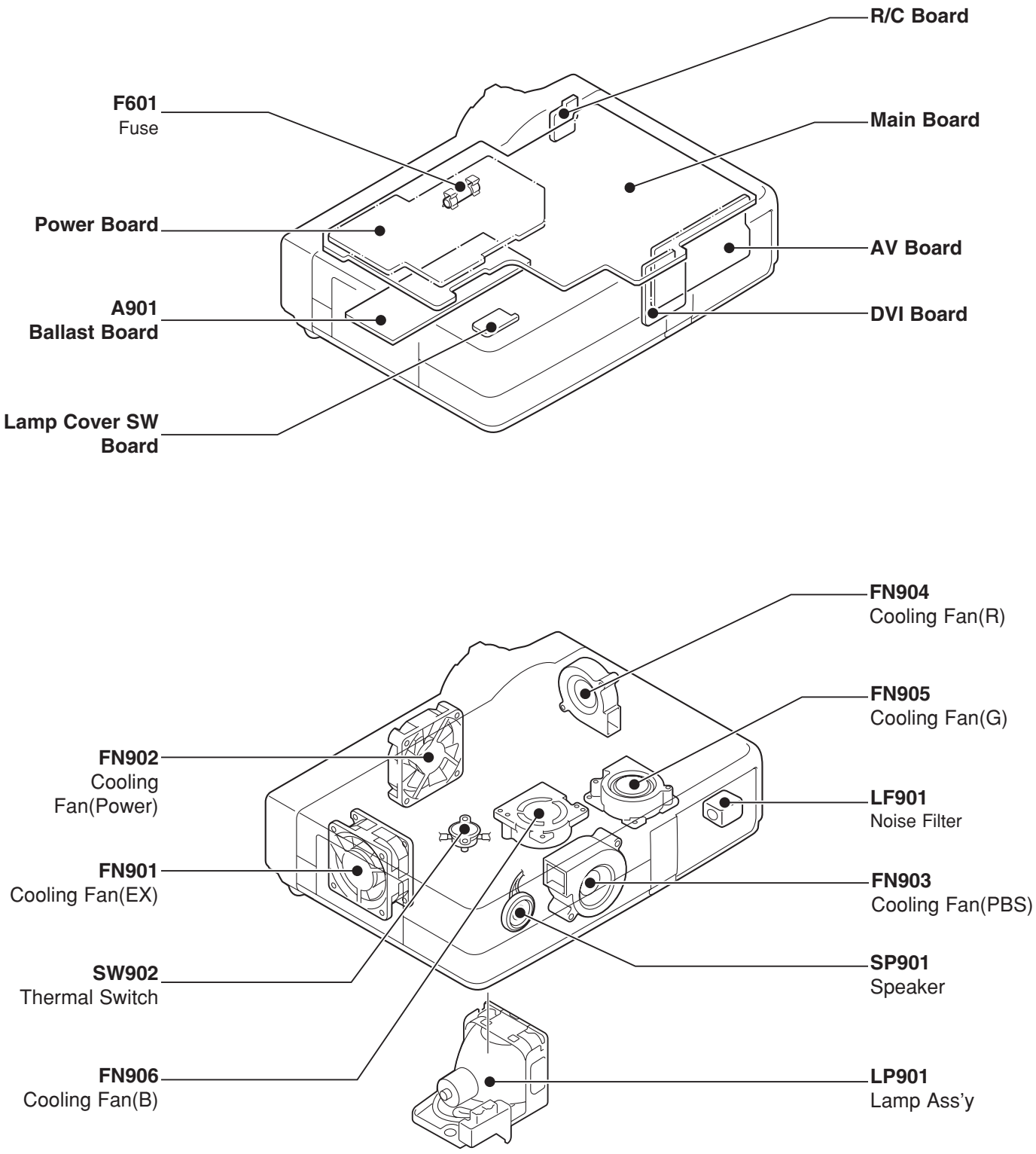
T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15% Z: 0 ohm
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES	Ceramic
FUSIBLE RES	Fusible
RESISTOR	Other

Note: Parts order must contain Chassis No., Part No., and Descriptions.

● OUT OF CIRCUIT BOARD



Key No.	Part No.	Description

ASSEMBLIED BOARDS

⚠	**610 306 7261**	**ASSY,PWB,AV MA7A**
⚠	**610 306 7278**	**ASSY,PWB,DVI MA7A**
⚠	**610 309 3642**	**ASSY,PWB,MAIN MT3A**
⚠	**610 309 3659**	**ASSY,PWB,RC MT3A**
⚠	**610 310 3143**	**ASSY,PWB,LAMP COVER SW MA**
⚠	**610 310 3167**	**ASSY,PWB,POWER MT3A**

OUT OF CIRCUIT BOARDS

⚠	LF901	645 062 3134	UNIT,NOISE FILTER
⚠	LP900	610 309 2706	COMPL,OPTICAL LAMP MT3A
⚠	A901	645 058 3520	UNIT,BALLAST
	A901A	610 308 8822	CABLE,BALLAST
⚠	FN901	645 054 9120	MOTOR,FAN DC 2.64W
⚠	FN902	645 062 3059	MOTOR,FAN DC 2.40W
⚠	FN903	645 062 3042	MOTOR,FAN DC 3.84W
⚠	FN904	645 062 3110	MOTOR,FAN DC 2.16W
⚠	FN905	645 062 3103	MOTOR,FAN DC 3.6W
⚠	FN906	645 062 3103	MOTOR,FAN DC 3.6W
	MAIN&FAN	610 306 8336	STANDARD WIRE ASSY-JPN
	SP901	645 049 0736	SPEAKER,8
⚠	SW902	645 050 3580	SWITCH,THERMAL
	WK8D-28D	645 049 7285	CORD,ID CONNECTOR

AV BOARD

610 306 7261 ASSY,PWB,AV MA7A

TRANSISTOR

Q001	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q002	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q051	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q052	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q053	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q054	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1001	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1002	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q1003	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q201	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q202	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q203	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S

Electrical Parts List

Key No.	Part No.	Description
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q221	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q222	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q223	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5001	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5041	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5042	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5043	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5061	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5111	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5121	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5131	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S

INTEGRATED CIRCUIT

IC001	409 438 5500	IC TC4052BFT
IC201	409 536 5600	IC AD8075ARU
IC221	409 434 8109	IC TC4053BFT-(EL)
IC5001	409 341 4102	IC BA7655AF
IC5021	409 142 2000	IC LA6358NM-TP-T1
IC5061	409 506 5609	IC AN7513

CAPACITOR

C001	403 323 8805	CERAMIC	2.2U Z	16V
C002	403 323 8805	CERAMIC	2.2U Z	16V
C003	403 323 8805	CERAMIC	2.2U Z	16V
C004	403 323 8805	CERAMIC	2.2U Z	16V
C006	403 164 0204	CERAMIC	0.1U Z	25V
C007	403 164 0204	CERAMIC	0.1U Z	25V
C008	403 164 0204	CERAMIC	0.1U Z	25V
C009	403 164 0204	CERAMIC	0.1U Z	25V
C010	403 164 0204	CERAMIC	0.1U Z	25V
C011	403 164 0204	CERAMIC	0.1U Z	25V
C012	403 325 6304	CERAMIC	0.22U K	10V
C013	403 325 6304	CERAMIC	0.22U K	10V
C014	403 175 4802	NP-ELECT	10U M	10V
C015	403 175 4802	NP-ELECT	10U M	10V
C1004	403 164 0204	CERAMIC	0.1U Z	25V
C1041	403 157 3601	CERAMIC	100P J	50V
C1042	403 157 3601	CERAMIC	100P J	50V
C1061	403 164 0204	CERAMIC	0.1U Z	25V
C200	403 322 7809	ELECT	220U M	6.3V
C201	403 164 0204	CERAMIC	0.1U Z	25V
C202	403 164 0204	CERAMIC	0.1U Z	25V
C2023	403 164 0204	CERAMIC	0.1U Z	25V
C204	403 283 6309	CERAMIC	1U Z	10V
C207	403 283 6309	CERAMIC	1U Z	10V
C208	403 164 0204	CERAMIC	0.1U Z	25V

Electrical Parts List

Key No.	Part No.	Description
C221	403 164 0204	CERAMIC 0.1U Z 25V
C222	403 164 0204	CERAMIC 0.1U Z 25V
C223	403 164 0204	CERAMIC 0.1U Z 25V
C224	403 164 0204	CERAMIC 0.1U Z 25V
C5001	403 323 8805	CERAMIC 2.2U Z 16V
C5002	403 323 8805	CERAMIC 2.2U Z 16V
C5041	403 323 8805	CERAMIC 2.2U Z 16V
C5042	403 304 2105	ELECT 47U M 6.3V
C5043	403 164 0204	CERAMIC 0.1U Z 25V
C5044	403 283 6309	CERAMIC 1U Z 10V
C5045	403 304 2105	ELECT 47U M 6.3V
C5061	403 323 8805	CERAMIC 2.2U Z 16V
C5062	403 207 0307	CERAMIC 1U Z 16V
C5063	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C5064	403 164 0204	CERAMIC 0.1U Z 25V
C5066	403 283 6309	CERAMIC 1U Z 10V
C5067	403 304 2105	ELECT 47U M 6.3V
C5068	403 304 2105	ELECT 47U M 6.3V
C5071	403 372 7507	CERAMIC 2.2U K 6.3V
C5072	403 283 6309	CERAMIC 1U Z 10V
C5101	403 283 6309	CERAMIC 1U Z 10V
C5102	403 283 6309	CERAMIC 1U Z 10V
C5111	403 304 3102	ELECT 22U M 16V
RESISTOR		
R001	401 105 8005	MT-GLAZE 1M JA 1/16W
R002	401 105 8005	MT-GLAZE 1M JA 1/16W
R003	401 105 8005	MT-GLAZE 1M JA 1/16W
R004	401 105 8005	MT-GLAZE 1M JA 1/16W
R006	401 105 0702	MT-GLAZE 100K JA 1/16W
R007	401 105 5202	MT-GLAZE 470 JA 1/16W
R008	401 105 0504	MT-GLAZE 1K JA 1/16W
R009	401 105 0702	MT-GLAZE 100K JA 1/16W
R011	401 105 0504	MT-GLAZE 1K JA 1/16W
R012	401 105 5202	MT-GLAZE 470 JA 1/16W
R050	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R051	401 105 0504	MT-GLAZE 1K JA 1/16W
R052	401 105 0504	MT-GLAZE 1K JA 1/16W
R053	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R054	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R055	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R056	401 105 0405	MT-GLAZE 100 JA 1/16W
R057	401 105 0405	MT-GLAZE 100 JA 1/16W
R058	401 105 0504	MT-GLAZE 1K JA 1/16W
R060	401 105 0504	MT-GLAZE 1K JA 1/16W
R1001	401 113 4402	MT-GLAZE 75 JA 1/16W
R1002	401 113 4402	MT-GLAZE 75 JA 1/16W
R1003	401 113 4402	MT-GLAZE 75 JA 1/16W
R1004	401 113 4402	MT-GLAZE 75 JA 1/16W
R1005	401 113 4402	MT-GLAZE 75 JA 1/16W
R1006	401 113 4402	MT-GLAZE 75 JA 1/16W
R1007	401 113 4402	MT-GLAZE 75 JA 1/16W
R1008	401 113 4402	MT-GLAZE 75 JA 1/16W
R1009	401 113 4402	MT-GLAZE 75 JA 1/16W
R1010	401 113 4402	MT-GLAZE 75 JA 1/16W
R1011	401 113 4402	MT-GLAZE 75 JA 1/16W
R1012	401 113 4402	MT-GLAZE 75 JA 1/16W
R1013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1014	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1015	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1016	401 105 0405	MT-GLAZE 100 JA 1/16W
R1017	401 105 0405	MT-GLAZE 100 JA 1/16W
R1018	401 105 0405	MT-GLAZE 100 JA 1/16W
R1021	401 105 0405	MT-GLAZE 100 JA 1/16W
R1022	401 105 2904	MT-GLAZE 22K JA 1/16W
R1024	401 105 0405	MT-GLAZE 100 JA 1/16W
R1025	401 105 0603	MT-GLAZE 10K JA 1/16W

Key No.	Part No.	Description
R1041	401 105 5509	MT-GLAZE 470K JA 1/16W
R1042	401 105 5509	MT-GLAZE 470K JA 1/16W
R1043	401 105 0405	MT-GLAZE 100 JA 1/16W
R1044	401 105 0405	MT-GLAZE 100 JA 1/16W
R2001	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2004	401 113 4402	MT-GLAZE 75 JA 1/16W
R2005	401 113 4402	MT-GLAZE 75 JA 1/16W
R2006	401 113 4402	MT-GLAZE 75 JA 1/16W
R2007	401 113 4402	MT-GLAZE 75 JA 1/16W
R201	401 105 0405	MT-GLAZE 100 JA 1/16W
R202	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2022	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2023	401 113 4402	MT-GLAZE 75 JA 1/16W
R2023TM	401 027 5502	CARBON 6.8K JA 1/6W
R2024	401 113 4402	MT-GLAZE 75 JA 1/16W
R2025	401 113 4402	MT-GLAZE 75 JA 1/16W
R2026	401 113 4402	MT-GLAZE 75 JA 1/16W
R2027	401 113 4402	MT-GLAZE 75 JA 1/16W
R2028	401 113 4402	MT-GLAZE 75 JA 1/16W
R2029	401 113 4402	MT-GLAZE 75 JA 1/16W
R203	401 105 0405	MT-GLAZE 100 JA 1/16W
R2030	401 113 4402	MT-GLAZE 75 JA 1/16W
R2032	401 105 0405	MT-GLAZE 100 JA 1/16W
R204	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2041	401 105 5509	MT-GLAZE 470K JA 1/16W
R2042	401 105 5509	MT-GLAZE 470K JA 1/16W
R2043	401 105 0405	MT-GLAZE 100 JA 1/16W
R2044	401 105 0405	MT-GLAZE 100 JA 1/16W
R205	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2051	401 105 0702	MT-GLAZE 100K JA 1/16W
R2052	401 105 0702	MT-GLAZE 100K JA 1/16W
R2053	401 105 0405	MT-GLAZE 100 JA 1/16W
R2054	401 105 0405	MT-GLAZE 100 JA 1/16W
R206	401 105 0405	MT-GLAZE 100 JA 1/16W
R207	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R208	401 113 4402	MT-GLAZE 75 JA 1/16W
R209	401 113 4402	MT-GLAZE 75 JA 1/16W
R211	401 113 4402	MT-GLAZE 75 JA 1/16W
R212	401 105 0405	MT-GLAZE 100 JA 1/16W
R214	401 105 0405	MT-GLAZE 100 JA 1/16W
R215	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R217	401 105 0405	MT-GLAZE 100 JA 1/16W
R219	401 105 0504	MT-GLAZE 1K JA 1/16W
R221	401 105 0504	MT-GLAZE 1K JA 1/16W
R222	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R223	401 105 0504	MT-GLAZE 1K JA 1/16W
R225	401 105 0306	MT-GLAZE 10 JA 1/16W
R226	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R227	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R228	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R229	401 105 0306	MT-GLAZE 10 JA 1/16W
R230	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R232	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R233	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R234	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5001	401 105 0405	MT-GLAZE 100 JA 1/16W
R5002	401 105 0405	MT-GLAZE 100 JA 1/16W
R5003	401 105 0405	MT-GLAZE 100 JA 1/16W
R5004	401 105 0405	MT-GLAZE 100 JA 1/16W
R5021	401 105 2904	MT-GLAZE 22K JA 1/16W
R5022	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R5023	401 105 0603	MT-GLAZE 10K JA 1/16W
R5024	401 105 0702	MT-GLAZE 100K JA 1/16W
R5026	401 105 0702	MT-GLAZE 100K JA 1/16W
R5027	401 105 0603	MT-GLAZE 10K JA 1/16W

Key No.	Part No.	Description
R5028	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R5029	401 105 2904	MT-GLAZE 22K JA 1/16W
R5031	401 105 0702	MT-GLAZE 100K JA 1/16W
R5031TM	407 149 0807	DIODE 1SS355-TE-17
R5032	401 105 0702	MT-GLAZE 100K JA 1/16W
R5033	401 105 8005	MT-GLAZE 1M JA 1/16W
R5034	401 105 2904	MT-GLAZE 22K JA 1/16W
R5036	407 149 0807	DIODE 1SS355-TE-17
R5037	401 105 0504	MT-GLAZE 1K JA 1/16W
R5041	401 105 0306	MT-GLAZE 10 JA 1/16W
R5042	401 105 0405	MT-GLAZE 100 JA 1/16W
R5043	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5044	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5046	401 105 0405	MT-GLAZE 100 JA 1/16W
R5047	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5048	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5049	401 113 6307	MT-GLAZE 4.3K JA 1/16W
R5051	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5052	401 105 0603	MT-GLAZE 10K JA 1/16W
R5053	401 105 0603	MT-GLAZE 10K JA 1/16W
R5054	401 105 0603	MT-GLAZE 10K JA 1/16W
R5061	401 105 0603	MT-GLAZE 10K JA 1/16W
R5062	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5063	401 105 0603	MT-GLAZE 10K JA 1/16W
R5064	401 105 0603	MT-GLAZE 10K JA 1/16W
R5066	401 105 5400	MT-GLAZE 47K JA 1/16W
R5067	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R5068	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5113	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5116	401 105 0504	MT-GLAZE 1K JA 1/16W
R5117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5118	401 105 5400	MT-GLAZE 47K JA 1/16W
R5119	401 105 5400	MT-GLAZE 47K JA 1/16W
R5124	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5126	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5133	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R5134	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5136	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L1021	645 059 2409	FILTER,EMI 35PF
L1022	645 059 2409	FILTER,EMI 35PF
L1041	645 059 2393	FILTER,EMI 20MHZ
L1042	645 059 2393	FILTER,EMI 20MHZ
L1051	645 059 2393	FILTER,EMI 20MHZ
L1052	645 059 2393	FILTER,EMI 20MHZ
L1053	645 059 2393	FILTER,EMI 20MHZ
L1054	645 059 2393	FILTER,EMI 20MHZ
L1055	645 059 2393	FILTER,EMI 20MHZ
L1056	645 059 2393	FILTER,EMI 20MHZ
L1057	645 059 2393	FILTER,EMI 20MHZ
L2004	645 059 2386	FILTER,EMI 100MHZ
L2024	645 059 2386	FILTER,EMI 100MHZ
L2025	645 059 2393	FILTER,EMI 20MHZ
L2041	645 059 2393	FILTER,EMI 20MHZ
L2042	645 059 2393	FILTER,EMI 20MHZ
L2051	645 059 2393	FILTER,EMI 20MHZ
L2052	645 059 2393	FILTER,EMI 20MHZ
DIODE		
D051	407 149 0807	DIODE 1SS355-TE-17
D052	407 149 0807	DIODE 1SS355-TE-17
D1001	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1002	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1003	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1020	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1021	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1022	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1041	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1042	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1043	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1044	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1051	645 045 7449	SURGE-ABSORBER
D1053	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1054	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1055	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1056	645 045 7449	SURGE-ABSORBER
D1058	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1059	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1061	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1064	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1065	645 045 7449	SURGE-ABSORBER
D1066	645 045 7449	SURGE-ABSORBER
D2001	645 045 7449	SURGE-ABSORBER
D2021	645 045 7449	SURGE-ABSORBER
D2022	645 045 7449	SURGE-ABSORBER
D2025	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2041	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2042	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2043	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2044	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2051	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2052	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2053	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2054	407 187 8209	ZENER DIODE UDZ12B-TE-17
D221TM	407 012 4406	DIODE 1SS133
D5001	401 037 5608	MT-GLAZE 10K JA 1/10W
MISCELLANEOUS		
K10A	645 009 8093	SOCKET,D-SUB 15P
K10B	645 000 2571	JACK,PHONE D8.0
K10C	645 048 6739	SOCKET,DIN 8P
K10D	645 028 0382	SOCKET,USB 4P
K20A	645 038 4462	JACK,RCA-3
K20B	610 010 8295	SOCKET,DIN 4P
K20D	645 017 1680	JACK,PHONE D3.6
SW1061	645 042 8104	SWITCH,PUSH 1P-1TX1

DVI BOARD

610 306 7278 ASSY,PWB,DVI MA7A

TRANSISTOR		
Q3071	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q3072	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F

Key No.	Part No.	Description
Q7011	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC3061	409 536 5501	IC AD8074ARU
IC7021	409 428 8405	IC TC7WT125FU-TE12L
IC7031	409 334 0104	IC TC7W125FU
IC7051	409 530 9109	IC PQ070XH02ZP
IC7071	409 334 0104	IC TC7W125FU
CAPACITOR		
C1086	403 164 0204	CERAMIC 0.1U Z 25V
C3061	403 304 2105	ELECT 47U M 6.3V
C3062	403 164 0204	CERAMIC 0.1U Z 25V
C3063	403 304 2105	ELECT 47U M 6.3V
C3064	403 164 0204	CERAMIC 0.1U Z 25V
C3066	403 164 0204	CERAMIC 0.1U Z 25V
C3071	403 164 0204	CERAMIC 0.1U Z 25V
C3072	403 164 0204	CERAMIC 0.1U Z 25V
C7001	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C7002	403 164 0204	CERAMIC 0.1U Z 25V
C7003	403 341 3905	POS-SOLID 100U M 6.3V
C7004	403 164 0204	CERAMIC 0.1U Z 25V
C7011	403 164 0204	CERAMIC 0.1U Z 25V
C7021	403 164 0204	CERAMIC 0.1U Z 25V
C7031	403 164 0204	CERAMIC 0.1U Z 25V
C7051	403 304 3300	ELECT 47U M 16V
C7052	403 164 0204	CERAMIC 0.1U Z 25V
C7053	403 341 3905	POS-SOLID 100U M 6.3V
C7054	403 164 0204	CERAMIC 0.1U Z 25V
C7071	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
R1086	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1088	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3051	401 113 4402	MT-GLAZE 75 JA 1/16W
R3052	401 113 4402	MT-GLAZE 75 JA 1/16W
R3053	401 113 4402	MT-GLAZE 75 JA 1/16W
R3054	401 113 4402	MT-GLAZE 75 JA 1/16W
R3055	401 113 4402	MT-GLAZE 75 JA 1/16W
R3056	401 113 4402	MT-GLAZE 75 JA 1/16W
R3057	401 113 4402	MT-GLAZE 75 JA 1/16W
R3058	401 113 4402	MT-GLAZE 75 JA 1/16W
R3059	401 113 4402	MT-GLAZE 75 JA 1/16W
R3060	401 113 4402	MT-GLAZE 75 JA 1/16W
R3061	401 113 4402	MT-GLAZE 75 JA 1/16W
R3062	401 113 4402	MT-GLAZE 75 JA 1/16W
R3063	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3064	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3065	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3066	401 105 0405	MT-GLAZE 100 JA 1/16W
R3067	401 105 0405	MT-GLAZE 100 JA 1/16W
R3068	401 105 0405	MT-GLAZE 100 JA 1/16W
R3069	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R3070	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R3071	401 105 0405	MT-GLAZE 100 JA 1/16W
R3072	401 105 2904	MT-GLAZE 22K JA 1/16W
R3073	401 105 0306	MT-GLAZE 10 JA 1/16W
R3074	401 105 0405	MT-GLAZE 100 JA 1/16W
R3075	401 105 0603	MT-GLAZE 10K JA 1/16W
R3076	401 105 0306	MT-GLAZE 10 JA 1/16W
R3077	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R3078	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R3079	401 105 0306	MT-GLAZE 10 JA 1/16W
R3081	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R3082	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R7011	401 105 0603	MT-GLAZE 10K JA 1/16W
R7012	401 105 0603	MT-GLAZE 10K JA 1/16W
R7013	401 105 0603	MT-GLAZE 10K JA 1/16W
R7014	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7018	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7021TM	401 024 7707	CARBON 100K JA 1/6W
R7051	401 190 1707	MT-GLAZE 0.000 ZA 1W
R7056	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R7057	401 105 0504	MT-GLAZE 1K JA 1/16W
R7071	401 105 0603	MT-GLAZE 10K JA 1/16W
R7072	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R7073	401 105 6605	MT-GLAZE 6.8K JA 1/16W
COIL		
L3071	645 059 2409	FILTER,EMI 35PF
L3072	645 059 2409	FILTER,EMI 35PF
DIODE		
D3051	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D3052	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D3053	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D3071	407 187 8209	ZENER DIODE UDZ12B-TE-17
D3072	407 187 8209	ZENER DIODE UDZ12B-TE-17
D7031TM	407 012 4406	DIODE 1SS133
D7052	407 190 4106	DIODE SFPL-52V
D7053	407 190 4106	DIODE SFPL-52V
MISCELLANEOUS		
K10E	645 053 7967	SOCKET,DVI 29P
SW7011	645 036 1074	SWITCH,PUSH

MAIN BOARD

610 309 3642 ASSY,PWB,MAIN MT3A

Key No.	Part No.	Description
TRANSISTOR		
Q1201	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1202	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1203	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1204	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S

Electrical Parts List

Key No.	Part No.	Description
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1205	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1351	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1371	405 045 8705	TR 2SK536-TB
Q1372	405 045 8705	TR 2SK536-TB
Q1821	405 045 8705	TR 2SK536-TB
Q1822	405 045 8705	TR 2SK536-TB
Q1823	405 045 8705	TR 2SK536-TB
Q1824	405 045 8705	TR 2SK536-TB
Q1826	405 045 8705	TR 2SK536-TB
Q1827	405 045 8705	TR 2SK536-TB
Q201	405 045 8705	TR 2SK536-TB
Q202	405 045 8705	TR 2SK536-TB
Q2101	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q2102	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q2111	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2112	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2115	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2116	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2117	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q2118	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q2119	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3103	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3111	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q3112	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0

Electrical Parts List

Key No.	Part No.	Description
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3113	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3114	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3115	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q3116	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3117	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3118	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3119	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3171	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3172	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3173	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3181	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3182	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q3301	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q3302	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q4867	405 132 3101	TR DTC114EKA-T146
Q5301	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5302	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R

Electrical Parts List

Key No.	Part No.	Description
	405 173 9902	TR 2SC3928A1S
Q5303	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5306	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5307	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5308	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q5309	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5311	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q5312	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q66A	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q67A	405 139 7706	TR IMZ1A-T108
Q67P	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q671	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q672	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q68A	405 139 7706	TR IMZ1A-T108
Q68P	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q681	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q682	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q6841	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q6842	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q6843	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q6844	405 014 4509	TR 2SC2412K T146 R

Electrical Parts List

Key No.	Part No.	Description
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q69A	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q691	405 154 3301	TR 2SK3280-TL
Q8141	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q8142	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q8143	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q8151	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q856	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q9801	405 134 5905	TR 2SA1037AK-T146-R
INTEGRATED CIRCUIT		
IC1201	409 530 7204	IC AN5870SB
IC1281	409 493 2902	IC SI-3012LU-TL
IC1301	410 325 4605	IC TC74LCX244FT
IC1311	409 350 2908	IC TC7W126FU-(TE12L)
IC1321	409 501 9107	IC ICS512MT
IC1331	409 501 9107	IC ICS512MT
IC1341	409 533 6006	IC 24LC32AT-I/SN
IC1351	409 301 5309	IC TC7S32FU-TE85L
IC1381	410 482 5101	IC MBM29DL32TF70C269
IC1391	410 478 4804	IC IDT71V30S25TF
IC1401	410 468 5507	IC TC74ACT240FT
IC1411	410 468 5606	IC TC74ACT244FT
IC1421	410 348 7409	IC TC74LCX125FT(EL)
IC1441	410 468 5606	IC TC74ACT244FT
IC1451	410 403 7900	IC LC24085BT-UG4
IC1801	409 339 3605	IC 24LC16BT/SN-T
IC1811	410 490 4202	IC M5M5V108DKV
	410 490 8903	IC N01L083WC2AN
IC1841	409 350 2908	IC TC7W126FU-(TE12L)
IC1851	409 404 6302	IC M62320FP
IC1861	410 337 0503	IC TC74LCX14FT
	410 337 0602	IC HD74LVC14T
IC1881	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC201	410 476 5506	IC AD9882KST-140
IC2101	409 504 5007	IC TC90A69F
IC2311	410 356 7606	IC SN74AHC1G04HDCKR
IC2312	410 381 4403	IC TC7W32FU(TE12L)
IC2321	410 362 6501	IC TC74LCX541FT
IC2322	410 362 6501	IC TC74LCX541FT
IC2323	410 346 8804	IC TC74LCX574FT
IC2324	410 346 8804	IC TC74LCX574FT
IC2341	410 339 4103	IC TC74LCX245FT
IC2342	410 339 4103	IC TC74LCX245FT
IC2343	409 429 2808	IC TC74LCX04FT-(EL)
IC2351	409 400 7105	IC TC7W53FU-(TE12L)
IC2352	409 400 7105	IC TC7W53FU-(TE12L)
IC2353	409 334 0104	IC TC7W125FU
IC2371	409 462 2407	IC TC7SZ08FU-(TE85L)
IC2401	409 339 3605	IC 24LC16BT/SN-T
IC2431	410 386 1902	IC TC74VCX125FT
IC2441	410 315 5506	IC HD74HCT244TV
IC2451	410 348 7409	IC TC74LCX125FT(EL)
IC2452	409 499 1800	IC PQ018EZ01ZP
IC2501	409 343 0201	IC LT1206CS8
IC2531	409 343 0201	IC LT1206CS8
IC2801	409 481 8602	IC LM76CHMX-5
IC281	409 458 3401	IC M62393FP
IC2831	409 481 8602	IC LM76CHMX-5
IC2861	409 481 8602	IC LM76CHMX-5
IC301	409 558 5909	IC PW463A-10V
IC3101	409 504 9005	IC TB1274AF
IC3102	409 416 6505	IC BA05FP-E2
IC3103	409 416 6505	IC BA05FP-E2
IC3871	409 466 6906	IC SP232ECT
IC401	409 551 8808	IC CXD3536R
IC4891	409 404 7200	IC TC7SET00FU-(TE85L)
IC501	409 551 8709	IC CXA7005R
IC5201	409 530 7204	IC AN5870SB
IC5301	409 434 8109	IC TC4053BFT-(EL)
IC531	409 551 8709	IC CXA7005R
IC5341	409 484 2003	IC BA7078AF-E2
IC5351	409 545 7503	IC TA1370FG
IC5361	410 471 9905	IC SN74AHC2G14HDCTR
IC5371	410 315 5506	IC HD74HCT244TV
	410 356 7507	IC SN74HCT244PWR
IC561	409 551 8709	IC CXA7005R
IC6211	409 506 0406	IC M62392FP
IC6621	409 124 5708	IC L78M09T-TR
IC6631	409 416 6406	IC BA033FP-E2
IC6641	409 416 6406	IC BA033FP-E2
IC6651	409 416 6406	IC BA033FP-E2
IC6671	409 499 1701	IC PQ025EZ01ZP
IC6681	409 416 6505	IC BA05FP-E2
IC671	409 531 6206	IC FA7701V-TE1
IC681	409 531 6206	IC FA7701V-TE1

Electrical Parts List

Key No.	Part No.	Description		
IC801	410 482 7600	IC HD64F2238ATE13-C273		
IC8101	409 434 8109	IC TC4053BFT-(EL)		
IC8111	409 417 5507	IC 24LC04BT/SN		
IC8121	409 434 8109	IC TC4053BFT-(EL)		
IC8131	409 417 5507	IC 24LC04BT/SN		
IC8141	409 451 2807	IC TC7W66FK-(TE85L)		
IC8151	409 434 8109	IC TC4053BFT-(EL)		
IC8161	NOT SUPPLIED PARTS			
IC841	409 433 4201	IC MN13821-H-TX		
IC9801	409 468 8908	IC ML60851CTB		
	409 521 4502	IC ML60851DTB		
IC9882	409 464 1408	IC TC74ACT14FT		
CAPACITOR				
C1201	403 322 7809	ELECT	220U M	6.3V
	403 349 4706	ELECT	220U M	6.3V
C1202	403 283 6309	CERAMIC	1U Z	10V
C1203	403 355 9900	CERAMIC	2.2U K	10V
C1204	403 355 9900	CERAMIC	2.2U K	10V
C1207	403 355 9900	CERAMIC	2.2U K	10V
C1208	403 355 9900	CERAMIC	2.2U K	10V
C1209	403 164 0204	CERAMIC	0.1U Z	25V
C1231	403 355 9900	CERAMIC	2.2U K	10V
C1233	403 355 9900	CERAMIC	2.2U K	10V
C1234	403 164 0204	CERAMIC	0.1U Z	25V
C1241	403 164 0204	CERAMIC	0.1U Z	25V
C1242	403 348 5803	CERAMIC	0.47U K	10V
C1243	403 149 9208	CERAMIC	0.01U Z	50V
C1244	403 149 9208	CERAMIC	0.01U Z	50V
C1246	403 280 1604	ELECT	220U M	16V
C1247	403 149 9208	CERAMIC	0.01U Z	50V
C1248	403 280 1604	ELECT	220U M	16V
C1249	403 149 9208	CERAMIC	0.01U Z	50V
C1251	403 321 7503	ELECT	220U M	16V
C1282	403 321 7404	ELECT	100U M	16V
C1283	403 164 0204	CERAMIC	0.1U Z	25V
C1301	403 164 0204	CERAMIC	0.1U Z	25V
C1311	403 164 0204	CERAMIC	0.1U Z	25V
C1321	403 304 1801	ELECT	100U M	6.3V
	403 373 7704	ELECT	100U M	6.3V
C1322	403 164 0204	CERAMIC	0.1U Z	25V
C1332	403 164 0204	CERAMIC	0.1U Z	25V
C1341	403 164 0204	CERAMIC	0.1U Z	25V
C1342	403 164 0204	CERAMIC	0.1U Z	25V
C1351	403 164 0204	CERAMIC	0.1U Z	25V
C1352	403 164 0204	CERAMIC	0.1U Z	25V
C1381	403 322 7809	ELECT	220U M	6.3V
	403 349 4706	ELECT	220U M	6.3V
C1391	403 164 0204	CERAMIC	0.1U Z	25V
C1401	403 164 0204	CERAMIC	0.1U Z	25V
C1411	403 164 0204	CERAMIC	0.1U Z	25V
C1421	403 164 0204	CERAMIC	0.1U Z	25V
C1441	403 164 0204	CERAMIC	0.1U Z	25V
C1451	403 322 7809	ELECT	220U M	6.3V
	403 349 4706	ELECT	220U M	6.3V
C1452	403 164 0204	CERAMIC	0.1U Z	25V
C1453	403 164 0204	CERAMIC	0.1U Z	25V
C1454	403 164 0204	CERAMIC	0.1U Z	25V
C1456	403 164 0204	CERAMIC	0.1U Z	25V
C1457	403 164 0204	CERAMIC	0.1U Z	25V
C1458	403 164 0204	CERAMIC	0.1U Z	25V
C1459	403 164 0204	CERAMIC	0.1U Z	25V
C1461	403 164 0204	CERAMIC	0.1U Z	25V
C1462	403 164 0204	CERAMIC	0.1U Z	25V
C1463	403 164 0204	CERAMIC	0.1U Z	25V
C1464	403 164 0204	CERAMIC	0.1U Z	25V
C1466	403 164 0204	CERAMIC	0.1U Z	25V
C1801	403 304 1801	ELECT	100U M	6.3V
	403 373 7704	ELECT	100U M	6.3V
C1802	403 164 0204	CERAMIC	0.1U Z	25V
C1811	403 164 0204	CERAMIC	0.1U Z	25V
C1861	403 164 0204	CERAMIC	0.1U Z	25V
C1881	403 164 0204	CERAMIC	0.1U Z	25V
C201	403 164 0204	CERAMIC	0.1U Z	25V
C202	403 164 0204	CERAMIC	0.1U Z	25V
C203	403 322 7809	ELECT	220U M	6.3V
	403 349 4706	ELECT	220U M	6.3V
C204	403 164 0204	CERAMIC	0.1U Z	25V
C206	403 164 0204	CERAMIC	0.1U Z	25V
C207	403 164 0204	CERAMIC	0.1U Z	25V
C2101	403 149 9208	CERAMIC	0.01U Z	50V
C2102	403 149 9208	CERAMIC	0.01U Z	50V
C2103	403 304 1801	ELECT	100U M	6.3V
	403 373 7704	ELECT	100U M	6.3V
C2104	403 164 0204	CERAMIC	0.1U Z	25V
C2106	403 149 9208	CERAMIC	0.01U Z	50V
C2107	403 149 9208	CERAMIC	0.01U Z	50V
C2108	403 283 6309	CERAMIC	1U Z	10V
C2109	403 304 2105	ELECT	47U M	6.3V
C211	403 164 0204	CERAMIC	0.1U Z	25V
C2111	403 304 2105	ELECT	47U M	6.3V
C2112	403 164 0204	CERAMIC	0.1U Z	25V
C2113	403 304 2105	ELECT	47U M	6.3V
C2114	403 164 0204	CERAMIC	0.1U Z	25V
C2116	403 164 0204	CERAMIC	0.1U Z	25V
C2117	403 304 2105	ELECT	47U M	6.3V
C2118	403 164 0204	CERAMIC	0.1U Z	25V
C2119	403 164 0204	CERAMIC	0.1U Z	25V
C212	403 164 0204	CERAMIC	0.1U Z	25V
C2121	403 305 9905	CERAMIC	680P J	25V
C2122	403 149 9208	CERAMIC	0.01U Z	50V
C2123	403 149 9208	CERAMIC	0.01U Z	50V
C213	403 164 0204	CERAMIC	0.1U Z	25V
C2131	403 139 7108	CERAMIC	12P J	50V
C2132	403 157 1904	CERAMIC	10P D	50V
C2133	403 157 2505	CERAMIC	27P J	50V
C2134	403 139 7108	CERAMIC	12P J	50V
C2135	403 157 2505	CERAMIC	27P J	50V
C214	403 157 2901	CERAMIC	47P J	50V
C2141	403 139 7108	CERAMIC	12P J	50V
C2142	403 157 1904	CERAMIC	10P D	50V
C2143	403 157 2505	CERAMIC	27P J	50V
C2145	403 145 9905	CERAMIC	22P J	50V
C2146	403 304 3102	ELECT	22U M	16V
C2148	403 364 5801	CERAMIC	1U K	10V
C2150TM	403 038 6707	ELECT	220U M	6.3V
C216	403 205 2808	CERAMIC	0.047U K	25V
C217	403 164 0204	CERAMIC	0.1U Z	25V
C218	403 157 2901	CERAMIC	47P J	50V
C219	403 205 2808	CERAMIC	0.047U K	25V
C221	403 164 0204	CERAMIC	0.1U Z	25V
C222	403 157 2901	CERAMIC	47P J	50V
C223	403 205 2808	CERAMIC	0.047U K	25V
C224	403 164 0204	CERAMIC	0.1U Z	25V
C226	403 283 2905	CERAMIC	0.082U K	16V
C227	403 215 2102	CERAMIC	8200P K	50V
C228	403 164 0204	CERAMIC	0.1U Z	25V
C229	403 164 0204	CERAMIC	0.1U Z	25V
C231	403 164 0204	CERAMIC	0.1U Z	25V
C2311	403 283 6309	CERAMIC	1U Z	10V
C2312	403 164 0204	CERAMIC	0.1U Z	25V
C232	403 164 0204	CERAMIC	0.1U Z	25V
C2321	403 164 0204	CERAMIC	0.1U Z	25V
C2323	403 164 0204	CERAMIC	0.1U Z	25V
C233	403 164 0204	CERAMIC	0.1U Z	25V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C2341	403 164 0204	CERAMIC	0.1U Z	25V	C3102	403 164 0204	CERAMIC	0.1U Z	25V
C2351	403 164 0204	CERAMIC	0.1U Z	25V	C3103	403 164 0204	CERAMIC	0.1U Z	25V
C236	403 164 0204	CERAMIC	0.1U Z	25V	C3104	403 149 9208	CERAMIC	0.01U Z	50V
C237	403 322 7809	ELECT	220U M	6.3V	C3106	403 304 2105	ELECT	47U M	6.3V
	403 349 4706	ELECT	220U M	6.3V	C3107	403 343 8809	CERAMIC	0.47U Z	16V
C238	403 164 0204	CERAMIC	0.1U Z	25V	C3108	403 304 2105	ELECT	47U M	6.3V
C239	403 322 7809	ELECT	220U M	6.3V	C3109	403 343 8809	CERAMIC	0.47U Z	16V
	403 349 4706	ELECT	220U M	6.3V	C311	403 164 0204	CERAMIC	0.1U Z	25V
C2391TM	403 379 9801	CERAMIC	10U K	6.3V	C3111	403 164 0204	CERAMIC	0.1U Z	25V
C2401	403 304 1801	ELECT	100U M	6.3V	C3112	403 164 0204	CERAMIC	0.1U Z	25V
	403 373 7704	ELECT	100U M	6.3V	C3113	403 164 0204	CERAMIC	0.1U Z	25V
C2402	403 164 0204	CERAMIC	0.1U Z	25V	C3114	403 162 5300	ELECT	4.7U M	25V
C2411	403 164 0204	CERAMIC	0.1U Z	25V	C3116	403 304 2105	ELECT	47U M	6.3V
C2433	403 164 0204	CERAMIC	0.1U Z	25V	C3117	403 164 0204	CERAMIC	0.1U Z	25V
C2441	403 164 0204	CERAMIC	0.1U Z	25V	C312	403 164 0204	CERAMIC	0.1U Z	25V
C2451	403 164 0204	CERAMIC	0.1U Z	25V	C3121	403 157 1706	CERAMIC	8P D	50V
C2501	403 157 3601	CERAMIC	100P J	50V	C3122	403 164 0204	CERAMIC	0.1U Z	25V
C2502	403 149 9208	CERAMIC	0.01U Z	50V	C3123	403 149 9208	CERAMIC	0.01U Z	50V
C2503	403 321 2607	ELECT	10U M	16V	C3124	403 162 6000	ELECT	0.47U M	50V
C2504	403 164 0204	CERAMIC	0.1U Z	25V	C3126	403 164 0204	CERAMIC	0.1U Z	25V
C2506	403 164 0204	CERAMIC	0.1U Z	25V	C3127	403 149 9208	CERAMIC	0.01U Z	50V
C2507	403 164 0204	CERAMIC	0.1U Z	25V	C3128	403 164 0204	CERAMIC	0.1U Z	25V
C2508	403 164 0204	CERAMIC	0.1U Z	25V	C3129	403 164 0204	CERAMIC	0.1U Z	25V
C2509	403 175 3300	ELECT	47U M	16V	C313	403 164 0204	CERAMIC	0.1U Z	25V
C2531	403 157 3601	CERAMIC	100P J	50V	C3131	403 284 4304	CERAMIC	0.022U K	50V
C2532	403 164 0204	CERAMIC	0.1U Z	25V	C3132	403 162 6604	ELECT	2.2U M	50V
C2533	403 321 2607	ELECT	10U M	16V	C3133	403 113 3805	CERAMIC	1000P K	50V
C2534	403 164 0204	CERAMIC	0.1U Z	25V	C3134	403 157 2901	CERAMIC	47P J	50V
C2536	403 164 0204	CERAMIC	0.1U Z	25V	C3135	403 322 7809	ELECT	220U M	6.3V
C2537	403 164 0204	CERAMIC	0.1U Z	25V		403 349 4706	ELECT	220U M	6.3V
C2538	403 164 0204	CERAMIC	0.1U Z	25V	C3136	403 164 0204	CERAMIC	0.1U Z	25V
C2539	403 175 3300	ELECT	47U M	16V	C3137	403 164 0204	CERAMIC	0.1U Z	25V
C2541	403 164 0204	CERAMIC	0.1U Z	25V	C3138	403 341 3905	POS-SOLID	100U M	6.3V
C2542	403 164 0204	CERAMIC	0.1U Z	25V	C314	403 164 0204	CERAMIC	0.1U Z	25V
C2543	403 164 0204	CERAMIC	0.1U Z	25V	C3144	403 164 0204	CERAMIC	0.1U Z	25V
C2544	403 175 3300	ELECT	47U M	16V	C3151	403 157 3106	CERAMIC	56P J	50V
C2546	403 229 3508	ELECT	100U M	16V	C316	403 164 0204	CERAMIC	0.1U Z	25V
	403 335 0408	ELECT	100U M	16V	C317	403 164 0204	CERAMIC	0.1U Z	25V
C2561	403 229 3508	ELECT	100U M	16V	C3171	403 283 6309	CERAMIC	1U Z	10V
	403 335 0408	ELECT	100U M	16V	C3172	403 164 0204	CERAMIC	0.1U Z	25V
C2562	403 164 0204	CERAMIC	0.1U Z	25V	C3176	403 164 0204	CERAMIC	0.1U Z	25V
C2563	403 229 3508	ELECT	100U M	16V	C3177	403 164 0204	CERAMIC	0.1U Z	25V
	403 335 0408	ELECT	100U M	16V	C3178	403 164 0204	CERAMIC	0.1U Z	25V
C2564	403 164 0204	CERAMIC	0.1U Z	25V	C318	403 164 0204	CERAMIC	0.1U Z	25V
C2566	403 323 8805	CERAMIC	2.2U Z	16V	C3181	403 321 2607	ELECT	10U M	16V
C2801	403 164 0204	CERAMIC	0.1U Z	25V	C3182	403 215 2201	CERAMIC	0.01U K	50V
C2802	403 155 1609	CERAMIC	33P J	50V	C319	403 164 0204	CERAMIC	0.1U Z	25V
C2803	403 155 1609	CERAMIC	33P J	50V	C3191	403 145 9905	CERAMIC	22P J	50V
C2804	403 164 0204	CERAMIC	0.1U Z	25V	C3192	403 157 1904	CERAMIC	10P D	50V
C2806	403 155 1609	CERAMIC	33P J	50V	C3193	403 157 2901	CERAMIC	47P J	50V
C2807	403 155 1609	CERAMIC	33P J	50V	C3194	403 157 2901	CERAMIC	47P J	50V
C2808	403 164 0204	CERAMIC	0.1U Z	25V	C3195	403 145 9905	CERAMIC	22P J	50V
C2809	403 155 1609	CERAMIC	33P J	50V	C3196	403 157 3601	CERAMIC	100P J	50V
C281	403 304 2105	ELECT	47U M	6.3V	C3197	403 157 2901	CERAMIC	47P J	50V
C2811	403 155 1609	CERAMIC	33P J	50V	C3198	403 145 9905	CERAMIC	22P J	50V
C282	403 164 0204	CERAMIC	0.1U Z	25V	C3199	403 157 3601	CERAMIC	100P J	50V
C283	403 304 2105	ELECT	47U M	6.3V	C321	403 164 0204	CERAMIC	0.1U Z	25V
C284	403 164 0204	CERAMIC	0.1U Z	25V	C322	403 164 0204	CERAMIC	0.1U Z	25V
C2891	403 164 0204	CERAMIC	0.1U Z	25V	C323	403 164 0204	CERAMIC	0.1U Z	25V
C2892	403 157 2901	CERAMIC	47P J	50V	C324	403 164 0204	CERAMIC	0.1U Z	25V
C301	403 139 7306	CERAMIC	18P J	50V	C326	403 164 0204	CERAMIC	0.1U Z	25V
C302	403 139 7306	CERAMIC	18P J	50V	C327	403 164 0204	CERAMIC	0.1U Z	25V
C306	403 164 0204	CERAMIC	0.1U Z	25V	C328	403 164 0204	CERAMIC	0.1U Z	25V
C307	403 164 0204	CERAMIC	0.1U Z	25V	C329	403 164 0204	CERAMIC	0.1U Z	25V
C308	403 164 0204	CERAMIC	0.1U Z	25V	C331	403 164 0204	CERAMIC	0.1U Z	25V
C309	403 164 0204	CERAMIC	0.1U Z	25V	C3871	403 207 0307	CERAMIC	1U Z	16V
C3101	403 164 0204	CERAMIC	0.1U Z	25V	C3872	403 207 0307	CERAMIC	1U Z	16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C3873	403 207 0307	CERAMIC	1U	Z 16V	C5301	403 283 6309	CERAMIC	1U	Z 10V
C3874	403 207 0307	CERAMIC	1U	Z 16V	C5302	403 283 6309	CERAMIC	1U	Z 10V
C3876	403 283 6309	CERAMIC	1U	Z 10V	C5305	403 283 6309	CERAMIC	1U	Z 10V
C401	403 164 0204	CERAMIC	0.1U	Z 25V	C5306	403 164 0204	CERAMIC	0.1U	Z 25V
C402	403 164 0204	CERAMIC	0.1U	Z 25V	C5307	403 342 6202	ELECT	47U	M 6.3V
C403	403 164 0204	CERAMIC	0.1U	Z 25V	C5308	403 316 5408	CERAMIC	1U	K 10V
C404	403 164 0204	CERAMIC	0.1U	Z 25V	C5309	403 283 6309	CERAMIC	1U	Z 10V
C406	403 164 0204	CERAMIC	0.1U	Z 25V	C531	403 304 2105	ELECT	47U	M 6.3V
C407	403 164 0204	CERAMIC	0.1U	Z 25V	C532	403 164 0204	CERAMIC	0.1U	Z 25V
C409	403 304 2105	ELECT	47U	M 6.3V	C533	403 304 3300	ELECT	47U	M 16V
C411	403 164 0204	CERAMIC	0.1U	Z 25V	C534	403 164 0204	CERAMIC	0.1U	Z 25V
C412	403 164 0204	CERAMIC	0.1U	Z 25V	C5340	403 164 0204	CERAMIC	0.1U	Z 25V
C413	403 164 0204	CERAMIC	0.1U	Z 25V	C5341	403 355 9900	CERAMIC	2.2U	K 10V
C414	403 164 0204	CERAMIC	0.1U	Z 25V	C5342	403 325 6304	CERAMIC	0.22U	K 10V
C416	403 164 0204	CERAMIC	0.1U	Z 25V	C5343	403 364 5801	CERAMIC	1U	K 10V
C417	403 164 0204	CERAMIC	0.1U	Z 25V	C5344	403 314 5905	CERAMIC	0.47U	K 16V
C418	403 164 0204	CERAMIC	0.1U	Z 25V	C5345	403 355 9900	CERAMIC	2.2U	K 10V
C419	403 164 0204	CERAMIC	0.1U	Z 25V	C5346	403 364 5801	CERAMIC	1U	K 10V
C421	403 164 0204	CERAMIC	0.1U	Z 25V	C5347	403 164 0204	CERAMIC	0.1U	Z 25V
C422	403 164 0204	CERAMIC	0.1U	Z 25V	C5348	403 342 6202	ELECT	47U	M 6.3V
C423	403 164 0204	CERAMIC	0.1U	Z 25V	C5349	403 157 3601	CERAMIC	100P	J 50V
C424	403 164 0204	CERAMIC	0.1U	Z 25V	C5351	403 162 6604	ELECT	2.2U	M 50V
C426	403 164 0204	CERAMIC	0.1U	Z 25V	C5352	403 215 2201	CERAMIC	0.01U	K 50V
C427	403 164 0204	CERAMIC	0.1U	Z 25V	C5353	403 321 7404	ELECT	100U	M 16V
C428	403 304 2105	ELECT	47U	M 6.3V	C5354	403 321 7404	ELECT	100U	M 16V
C429	403 304 2105	ELECT	47U	M 6.3V	C5356	403 164 0204	CERAMIC	0.1U	Z 25V
C431	403 164 0204	CERAMIC	0.1U	Z 25V	C5359	403 372 7507	CERAMIC	2.2U	K 6.3V
C432	403 164 0204	CERAMIC	0.1U	Z 25V	C536	403 304 3300	ELECT	47U	M 16V
C433	403 164 0204	CERAMIC	0.1U	Z 25V	C5361	403 283 6309	CERAMIC	1U	Z 10V
C434	403 164 0204	CERAMIC	0.1U	Z 25V	C537	403 164 0204	CERAMIC	0.1U	Z 25V
C436	403 164 0204	CERAMIC	0.1U	Z 25V	C5371	403 164 0204	CERAMIC	0.1U	Z 25V
C437	403 164 0204	CERAMIC	0.1U	Z 25V	C538	403 304 3300	ELECT	47U	M 16V
C438	403 164 0204	CERAMIC	0.1U	Z 25V	C539	403 164 0204	CERAMIC	0.1U	Z 25V
C4891	403 298 9609	CERAMIC	0.1U	K 16V	C541	403 164 0204	CERAMIC	0.1U	Z 25V
C501	403 304 2105	ELECT	47U	M 6.3V	C542	403 164 0204	CERAMIC	0.1U	Z 25V
C502	403 164 0204	CERAMIC	0.1U	Z 25V	C561	403 304 2105	ELECT	47U	M 6.3V
C503	403 304 3300	ELECT	47U	M 16V	C562	403 164 0204	CERAMIC	0.1U	Z 25V
C504	403 164 0204	CERAMIC	0.1U	Z 25V	C563	403 304 3300	ELECT	47U	M 16V
C506	403 304 3300	ELECT	47U	M 16V	C564	403 164 0204	CERAMIC	0.1U	Z 25V
C507	403 164 0204	CERAMIC	0.1U	Z 25V	C566	403 304 3300	ELECT	47U	M 16V
C508	403 304 3300	ELECT	47U	M 16V	C567	403 164 0204	CERAMIC	0.1U	Z 25V
C509	403 164 0204	CERAMIC	0.1U	Z 25V	C568	403 304 3300	ELECT	47U	M 16V
C511	403 164 0204	CERAMIC	0.1U	Z 25V	C569	403 164 0204	CERAMIC	0.1U	Z 25V
C512	403 164 0204	CERAMIC	0.1U	Z 25V	C571	403 164 0204	CERAMIC	0.1U	Z 25V
C5201	403 322 7809	ELECT	220U	M 6.3V	C572	403 164 0204	CERAMIC	0.1U	Z 25V
	403 349 4706	ELECT	220U	M 6.3V	C6202	403 304 2105	ELECT	47U	M 6.3V
C5202	403 283 6309	CERAMIC	1U	Z 10V	C6203	403 164 0204	CERAMIC	0.1U	Z 25V
C5203	403 355 9900	CERAMIC	2.2U	K 10V	C6206	403 304 2105	ELECT	47U	M 6.3V
C5204	403 355 9900	CERAMIC	2.2U	K 10V	C6207	403 164 0204	CERAMIC	0.1U	Z 25V
C5206	403 355 9900	CERAMIC	2.2U	K 10V	C6215	403 304 1801	ELECT	100U	M 6.3V
C5207	403 355 9900	CERAMIC	2.2U	K 10V		403 373 7704	ELECT	100U	M 6.3V
C5208	403 164 0204	CERAMIC	0.1U	Z 25V	C6216	403 164 0204	CERAMIC	0.1U	Z 25V
C5209	403 355 9900	CERAMIC	2.2U	K 10V	C6218	403 164 0204	CERAMIC	0.1U	Z 25V
C5211	403 355 9900	CERAMIC	2.2U	K 10V	C6219	403 304 1801	ELECT	100U	M 6.3V
C5212	403 164 0204	CERAMIC	0.1U	Z 25V		403 373 7704	ELECT	100U	M 6.3V
C5213	403 164 0204	CERAMIC	0.1U	Z 25V	C65ATM	403 341 3905	POS-SOLID	100U	M 6.3V
C5214	403 149 9208	CERAMIC	0.01U	Z 50V	C66J	403 379 6701	CERAMIC	10U	K 16V
C5216	403 149 9208	CERAMIC	0.01U	Z 50V	C66K	403 379 6701	CERAMIC	10U	K 16V
C5217	403 280 1604	ELECT	220U	M 16V	C66L	403 379 6701	CERAMIC	10U	K 16V
C5218	403 149 9208	CERAMIC	0.01U	Z 50V	C66M	403 379 6701	CERAMIC	10U	K 16V
C5219	403 280 1604	ELECT	220U	M 16V	C6601	403 322 7809	ELECT	220U	M 6.3V
C5221	403 149 9208	CERAMIC	0.01U	Z 50V		403 349 4706	ELECT	220U	M 6.3V
C5222	403 321 7503	ELECT	220U	M 16V	C6602	403 164 0204	CERAMIC	0.1U	Z 25V
C5224	403 229 3508	ELECT	100U	M 16V	C6603	403 322 7809	ELECT	220U	M 6.3V
	403 335 0408	ELECT	100U	M 16V		403 349 4706	ELECT	220U	M 6.3V
C5226	403 164 0204	CERAMIC	0.1U	Z 25V	C6604	403 164 0204	CERAMIC	0.1U	Z 25V
C5281	403 323 8805	CERAMIC	2.2U	Z 16V	C6606	403 322 7809	ELECT	220U	M 6.3V

Electrical Parts List

Key No.	Part No.	Description
	403 349 4706	ELECT 220U M 6.3V
C6607	403 164 0204	CERAMIC 0.1U Z 25V
C6611	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C6621	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C6622	403 164 0204	CERAMIC 0.1U Z 25V
C6623	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C6624	403 164 0204	CERAMIC 0.1U Z 25V
C6631	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6632	403 164 0204	CERAMIC 0.1U Z 25V
C6633	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6634	403 164 0204	CERAMIC 0.1U Z 25V
C6641	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6642	403 164 0204	CERAMIC 0.1U Z 25V
C6643	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6644	403 164 0204	CERAMIC 0.1U Z 25V
C6651	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6652	403 164 0204	CERAMIC 0.1U Z 25V
C6653	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6654	403 164 0204	CERAMIC 0.1U Z 25V
C6661	403 347 5507	POS-SOLID 470U M 4V
C6664	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6671	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6672	403 164 0204	CERAMIC 0.1U Z 25V
C6673	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6674	403 164 0204	CERAMIC 0.1U Z 25V
C6675	403 164 0204	CERAMIC 0.1U Z 25V
C6681	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6682	403 164 0204	CERAMIC 0.1U Z 25V
C6683	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C6684	403 164 0204	CERAMIC 0.1U Z 25V
C671	403 281 5205	CERAMIC 0.22U Z 16V
C672	403 164 0204	CERAMIC 0.1U Z 25V
C674	403 155 2309	CERAMIC 4700P K 50V
C675	403 321 7404	ELECT 100U M 16V
C676	403 321 7404	ELECT 100U M 16V
C68N	403 379 6701	CERAMIC 10U K 16V
C68P	403 379 6701	CERAMIC 10U K 16V
C6801	403 164 0204	CERAMIC 0.1U Z 25V
C6802	403 164 0204	CERAMIC 0.1U Z 25V
C6803	403 164 0204	CERAMIC 0.1U Z 25V
C681	403 281 5205	CERAMIC 0.22U Z 16V
C682	403 164 0204	CERAMIC 0.1U Z 25V
C684	403 155 2309	CERAMIC 4700P K 50V
C685	403 321 7404	ELECT 100U M 16V
C686	403 321 7404	ELECT 100U M 16V
C69Z	403 164 0204	CERAMIC 0.1U Z 25V
C691	403 207 0307	CERAMIC 1U Z 16V
C801	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C802	403 164 0204	CERAMIC 0.1U Z 25V
C8101	403 164 0204	CERAMIC 0.1U Z 25V
C8102	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C811	403 164 0204	CERAMIC 0.1U Z 25V
C812	403 164 0204	CERAMIC 0.1U Z 25V
C8121	403 164 0204	CERAMIC 0.1U Z 25V
C8122	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C813	403 164 0204	CERAMIC 0.1U Z 25V
C814	403 164 0204	CERAMIC 0.1U Z 25V
C8151	403 164 0204	CERAMIC 0.1U Z 25V
C841	403 304 2105	ELECT 47U M 6.3V
C842	403 164 0204	CERAMIC 0.1U Z 25V
C843	403 162 4709	ELECT 10U M 16V
	403 335 0309	ELECT 10U M 16V
C844	403 283 6309	CERAMIC 1U Z 10V
C846	403 164 0204	CERAMIC 0.1U Z 25V
C851	403 145 9905	CERAMIC 22P J 50V
C852	403 145 9905	CERAMIC 22P J 50V
C9791	403 280 0607	ELECT 220U M 6.3V
C9802	403 164 0204	CERAMIC 0.1U Z 25V
C9803	403 164 0204	CERAMIC 0.1U Z 25V
C9804	403 164 0204	CERAMIC 0.1U Z 25V
C9806	403 164 0204	CERAMIC 0.1U Z 25V
C9811	403 113 3805	CERAMIC 1000P K 50V
C9812	403 153 9102	CERAMIC 5P C 50V
C9813	403 164 0204	CERAMIC 0.1U Z 25V
C9882	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
RB1451	645 049 0682	R-NETWORK 10X4 1/32W
RB1452	645 049 0682	R-NETWORK 10X4 1/32W
RB1453	645 049 0682	R-NETWORK 10X4 1/32W
RB1454	645 049 0682	R-NETWORK 10X4 1/32W
RB1455	645 049 0682	R-NETWORK 10X4 1/32W
RB1456	645 049 0682	R-NETWORK 10X4 1/32W
RB201	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB202	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB203	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB204	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB206	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB208	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB301	645 036 3528	R-NETWORK 0X4 1/32W
RB302	645 036 3528	R-NETWORK 0X4 1/32W
RB303	645 036 3528	R-NETWORK 0X4 1/32W
RB304	645 036 3528	R-NETWORK 0X4 1/32W
RB308	645 036 3528	R-NETWORK 0X4 1/32W
RB309	645 036 3528	R-NETWORK 0X4 1/32W
RB313	645 036 3528	R-NETWORK 0X4 1/32W
RB314	645 036 3528	R-NETWORK 0X4 1/32W
RB401	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB402	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB403	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB404	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB406	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB407	645 034 5050	R-NETWORK 22X4 1/32W
	645 037 0823	R-NETWORK 22X4 1/32W
RB408	645 049 0682	R-NETWORK 10X4 1/32W
RB409	645 049 0682	R-NETWORK 10X4 1/32W
RB411	645 049 0682	R-NETWORK 10X4 1/32W

Electrical Parts List

Key No.	Part No.	Description
RB412	645 049 0682	R-NETWORK 10X4 1/32W
RB413	645 049 0682	R-NETWORK 10X4 1/32W
RB414	645 049 0682	R-NETWORK 10X4 1/32W
RB502	645 037 0816	R-NETWORK 0X4 1/32W
RB503	645 049 0682	R-NETWORK 10X4 1/32W
RB504	645 049 0682	R-NETWORK 10X4 1/32W
RB532	645 037 0816	R-NETWORK 0X4 1/32W
RB533	645 049 0682	R-NETWORK 10X4 1/32W
RB534	645 049 0682	R-NETWORK 10X4 1/32W
RB562	645 037 0816	R-NETWORK 0X4 1/32W
RB563	645 049 0682	R-NETWORK 10X4 1/32W
RB564	645 049 0682	R-NETWORK 10X4 1/32W
RB9801	645 028 0726	R-NETWORK 100KX4 1/32W
RB9802	645 028 0726	R-NETWORK 100KX4 1/32W
RST	645 026 2791	SWITCH,PUSH 1P-1TX1
R1201	401 105 1303	MT-GLAZE 15 JA 1/16W
R1202	401 105 0405	MT-GLAZE 100 JA 1/16W
R1203	403 145 9905	CERAMIC 22P J 50V
R1204	401 105 3208	MT-GLAZE 270 JA 1/16W
R1206	401 105 0405	MT-GLAZE 100 JA 1/16W
R1207	403 145 9905	CERAMIC 22P J 50V
R1208	401 105 3208	MT-GLAZE 270 JA 1/16W
R1209	401 105 0405	MT-GLAZE 100 JA 1/16W
R1211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1214	403 145 9905	CERAMIC 22P J 50V
R1216	401 105 3208	MT-GLAZE 270 JA 1/16W
R1217	401 105 0504	MT-GLAZE 1K JA 1/16W
R1218	401 105 0504	MT-GLAZE 1K JA 1/16W
R1219	401 105 0504	MT-GLAZE 1K JA 1/16W
R1221	401 105 0504	MT-GLAZE 1K JA 1/16W
R1223	401 105 0504	MT-GLAZE 1K JA 1/16W
R1224	401 105 0504	MT-GLAZE 1K JA 1/16W
R1226	401 105 0504	MT-GLAZE 1K JA 1/16W
R1227	401 105 0504	MT-GLAZE 1K JA 1/16W
R1228	401 105 0405	MT-GLAZE 100 JA 1/16W
R1229	401 105 0405	MT-GLAZE 100 JA 1/16W
R1231	401 105 5202	MT-GLAZE 470 JA 1/16W
R1232	401 105 0504	MT-GLAZE 1K JA 1/16W
R1233	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1236	401 105 0504	MT-GLAZE 1K JA 1/16W
R1281	401 105 1303	MT-GLAZE 15 JA 1/16W
R1282	401 105 1303	MT-GLAZE 15 JA 1/16W
R1283	401 105 5400	MT-GLAZE 47K JA 1/16W
R1284	401 105 4809	MT-GLAZE 390K JA 1/16W
R1285	401 219 1602	MT-GLAZE 100K FA 1/16W
R1286	401 105 4809	MT-GLAZE 390K JA 1/16W
R1301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1303	401 105 0405	MT-GLAZE 100 JA 1/16W
R1304	401 105 0405	MT-GLAZE 100 JA 1/16W
R1306	401 105 0405	MT-GLAZE 100 JA 1/16W
R1307	401 105 0405	MT-GLAZE 100 JA 1/16W
R1311	401 105 0504	MT-GLAZE 1K JA 1/16W
R1312	401 105 0504	MT-GLAZE 1K JA 1/16W
R1322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1323	401 105 0603	MT-GLAZE 10K JA 1/16W
R1327	401 105 0603	MT-GLAZE 10K JA 1/16W
R1332	401 113 4402	MT-GLAZE 75 JA 1/16W
R1334	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1336	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1351	401 105 0405	MT-GLAZE 100 JA 1/16W
R1352	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1353	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1355	401 105 0603	MT-GLAZE 10K JA 1/16W
R1356	401 105 0603	MT-GLAZE 10K JA 1/16W
R1357	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1364	401 105 0306	MT-GLAZE 10 JA 1/16W
R1371	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1372	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1381	401 105 0603	MT-GLAZE 10K JA 1/16W
R1382	401 105 0405	MT-GLAZE 100 JA 1/16W
R1383	401 105 0603	MT-GLAZE 10K JA 1/16W
R1386	401 105 0603	MT-GLAZE 10K JA 1/16W
R1387	401 105 0603	MT-GLAZE 10K JA 1/16W
R1388	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1389	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1391	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1392	401 105 0603	MT-GLAZE 10K JA 1/16W
R1396	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1397	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1398	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1399	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1401	401 105 0306	MT-GLAZE 10 JA 1/16W
R1402	401 105 0306	MT-GLAZE 10 JA 1/16W
R1403	401 105 0306	MT-GLAZE 10 JA 1/16W
R1404	401 105 0306	MT-GLAZE 10 JA 1/16W
R1406	401 105 0306	MT-GLAZE 10 JA 1/16W
R1407	401 105 0306	MT-GLAZE 10 JA 1/16W
R1411	401 105 0306	MT-GLAZE 10 JA 1/16W
R1412	401 105 0306	MT-GLAZE 10 JA 1/16W
R1413	401 105 0306	MT-GLAZE 10 JA 1/16W
R1414	401 105 0306	MT-GLAZE 10 JA 1/16W
R1416	401 105 0306	MT-GLAZE 10 JA 1/16W
R1417	401 105 0306	MT-GLAZE 10 JA 1/16W
R1421	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1423	401 105 0306	MT-GLAZE 10 JA 1/16W
R1426	401 105 0306	MT-GLAZE 10 JA 1/16W
R1428	401 105 0306	MT-GLAZE 10 JA 1/16W
R1441	401 105 0306	MT-GLAZE 10 JA 1/16W
R1442	401 105 0306	MT-GLAZE 10 JA 1/16W
R1443	401 105 0306	MT-GLAZE 10 JA 1/16W
R1444	401 105 0306	MT-GLAZE 10 JA 1/16W
R1446	401 105 0306	MT-GLAZE 10 JA 1/16W
R1447	401 105 0306	MT-GLAZE 10 JA 1/16W
R1448	401 105 0306	MT-GLAZE 10 JA 1/16W
R1449	401 105 0306	MT-GLAZE 10 JA 1/16W
R1451	401 105 0306	MT-GLAZE 10 JA 1/16W
R1452	401 105 0306	MT-GLAZE 10 JA 1/16W
R1453	401 105 0306	MT-GLAZE 10 JA 1/16W
R1454	401 105 0306	MT-GLAZE 10 JA 1/16W
R1455	401 105 0306	MT-GLAZE 10 JA 1/16W
R1456	401 105 0306	MT-GLAZE 10 JA 1/16W
R1471	401 105 0306	MT-GLAZE 10 JA 1/16W
R1472	401 105 0306	MT-GLAZE 10 JA 1/16W
R1473	401 105 0306	MT-GLAZE 10 JA 1/16W
R1474	401 105 0306	MT-GLAZE 10 JA 1/16W
R1476	401 105 0306	MT-GLAZE 10 JA 1/16W
R1477	401 105 0603	MT-GLAZE 10K JA 1/16W
R1479	401 105 0603	MT-GLAZE 10K JA 1/16W
R1481	401 105 0306	MT-GLAZE 10 JA 1/16W
R1483	401 105 0603	MT-GLAZE 10K JA 1/16W
R1484	401 105 0603	MT-GLAZE 10K JA 1/16W
R1813	401 105 0405	MT-GLAZE 100 JA 1/16W
R1814	401 105 0405	MT-GLAZE 100 JA 1/16W
R1821	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1822	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1823	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1824	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1826	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1827	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1834	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R1836	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R221	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1837	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R222	401 105 4403	MT-GLAZE 39 JA 1/16W
R1841	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R223	401 105 5202	MT-GLAZE 470 JA 1/16W
R1842	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R224	401 105 3109	MT-GLAZE 27 JA 1/16W
R1843	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1844	401 105 0603	MT-GLAZE 10K JA 1/16W	R2303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1847	401 105 0603	MT-GLAZE 10K JA 1/16W	R2312	401 105 0603	MT-GLAZE 10K JA 1/16W
R1848	401 105 0504	MT-GLAZE 1K JA 1/16W	R2313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1851	401 105 0405	MT-GLAZE 100 JA 1/16W	R2314	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1852	401 105 0405	MT-GLAZE 100 JA 1/16W	R2315	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1857	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1861	401 105 0405	MT-GLAZE 100 JA 1/16W	R2317	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1881	401 105 0405	MT-GLAZE 100 JA 1/16W	R2319	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1882	401 105 0405	MT-GLAZE 100 JA 1/16W	R2321	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1883	401 105 0405	MT-GLAZE 100 JA 1/16W	R2322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1884	401 105 4502	MT-GLAZE 390 JA 1/16W	R2323	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1886	401 105 4502	MT-GLAZE 390 JA 1/16W	R2324	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1889	401 105 0504	MT-GLAZE 1K JA 1/16W	R2326	401 105 0603	MT-GLAZE 10K JA 1/16W
R1891	401 105 0504	MT-GLAZE 1K JA 1/16W	R2328	401 105 0603	MT-GLAZE 10K JA 1/16W
R1892	401 105 0603	MT-GLAZE 10K JA 1/16W	R2329	401 105 0603	MT-GLAZE 10K JA 1/16W
R201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2331	401 105 0603	MT-GLAZE 10K JA 1/16W
R202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2332	401 105 0603	MT-GLAZE 10K JA 1/16W
R203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2333	401 105 0603	MT-GLAZE 10K JA 1/16W
R204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2337	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R206	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R207	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2339	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R208	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R2341	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R209	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R2342	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2101	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R2343	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2103	401 105 0405	MT-GLAZE 100 JA 1/16W	R2346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2104	401 105 0405	MT-GLAZE 100 JA 1/16W	R2347	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2106	401 105 4007	MT-GLAZE 330 JA 1/16W	R2349	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2107	401 105 3307	MT-GLAZE 2.7K JA 1/16W	R2351	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2108	401 105 0504	MT-GLAZE 1K JA 1/16W	R2353	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2109	401 105 3307	MT-GLAZE 2.7K JA 1/16W	R2354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2357	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2111	401 105 0504	MT-GLAZE 1K JA 1/16W	R2358	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2112	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2113	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2363	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2364	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2120	401 105 7305	MT-GLAZE 820 JA 1/16W	R2366	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2121	401 105 7305	MT-GLAZE 820 JA 1/16W	R2367	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2123	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R2368	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2125	401 105 0504	MT-GLAZE 1K JA 1/16W	R2371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2126	401 105 0603	MT-GLAZE 10K JA 1/16W	R2372	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2128	401 105 0504	MT-GLAZE 1K JA 1/16W	R2381	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2383	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2131	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2384	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2132	401 105 0504	MT-GLAZE 1K JA 1/16W	R2387	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2133	401 105 6506	MT-GLAZE 680 JA 1/16W	R2389	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2134	401 105 0603	MT-GLAZE 10K JA 1/16W	R2391	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2135	401 105 1105	MT-GLAZE 12K JA 1/16W	R2392	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2136	401 105 1105	MT-GLAZE 12K JA 1/16W	R2401	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2137	401 105 5905	MT-GLAZE 560 JA 1/16W	R2402	401 105 0306	MT-GLAZE 10 JA 1/16W
R2138	401 105 5905	MT-GLAZE 560 JA 1/16W	R2403	401 105 0306	MT-GLAZE 10 JA 1/16W
R214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2411	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2143	401 105 0405	MT-GLAZE 100 JA 1/16W	R2412	401 105 0306	MT-GLAZE 10 JA 1/16W
R2144	401 105 1006	MT-GLAZE 1.2K JA 1/16W	R2413	401 105 0306	MT-GLAZE 10 JA 1/16W
R2145	401 105 0504	MT-GLAZE 1K JA 1/16W	R2414	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R2151	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R2416	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R2152	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R2431	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2153	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R2434	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2437	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R217	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2441	401 105 0306	MT-GLAZE 10 JA 1/16W
R218	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R2442	401 105 0306	MT-GLAZE 10 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R2443	401 105 0306	MT-GLAZE 10 JA 1/16W	R3124	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2444	401 105 0306	MT-GLAZE 10 JA 1/16W	R3125	401 177 2406	MT-GLAZE 10M JA 1/16W
R2446	401 105 0306	MT-GLAZE 10 JA 1/16W	R3127	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2447	401 105 0306	MT-GLAZE 10 JA 1/16W	R3128	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2448	401 105 0306	MT-GLAZE 10 JA 1/16W	R3129	401 177 2406	MT-GLAZE 10M JA 1/16W
R2451	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3131	401 105 3406	MT-GLAZE 27K JA 1/16W
R2452	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3132	401 105 7503	MT-GLAZE 82K JA 1/16W
R2453	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R3133	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R2454	401 105 0306	MT-GLAZE 10 JA 1/16W	R3134	401 105 0504	MT-GLAZE 1K JA 1/16W
R2456	401 105 0306	MT-GLAZE 10 JA 1/16W	R3136	401 105 0504	MT-GLAZE 1K JA 1/16W
R2457	401 105 0306	MT-GLAZE 10 JA 1/16W	R3137	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R2463	401 105 7206	MT-GLAZE 82 JA 1/16W	R3139	401 105 0504	MT-GLAZE 1K JA 1/16W
R2466	401 105 7206	MT-GLAZE 82 JA 1/16W	R314	401 105 0603	MT-GLAZE 10K JA 1/16W
R2467	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3141	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2469	401 105 7206	MT-GLAZE 82 JA 1/16W	R3142	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R2471	401 105 0603	MT-GLAZE 10K JA 1/16W	R3143	401 105 0504	MT-GLAZE 1K JA 1/16W
R2501	401 105 0504	MT-GLAZE 1K JA 1/16W	R3144	401 105 5905	MT-GLAZE 560 JA 1/16W
R2502	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3145	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2503	401 105 5905	MT-GLAZE 560 JA 1/16W	R3146	401 105 0504	MT-GLAZE 1K JA 1/16W
R2504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3147	401 105 5905	MT-GLAZE 560 JA 1/16W
R2505	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3148	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2531	401 105 0504	MT-GLAZE 1K JA 1/16W	R3149	401 105 0504	MT-GLAZE 1K JA 1/16W
R2532	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R3151	401 105 0603	MT-GLAZE 10K JA 1/16W
R2533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3152	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2536	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3153	401 105 0603	MT-GLAZE 10K JA 1/16W
R2538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3154	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3155	401 105 0603	MT-GLAZE 10K JA 1/16W
R2541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3156	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2561	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R3160	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2562	401 105 3208	MT-GLAZE 270 JA 1/16W	R3161	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R2563	401 105 3208	MT-GLAZE 270 JA 1/16W	R3163	401 105 0603	MT-GLAZE 10K JA 1/16W
R2564	401 105 3208	MT-GLAZE 270 JA 1/16W	R3164	401 105 5905	MT-GLAZE 560 JA 1/16W
R2801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3165	401 105 5905	MT-GLAZE 560 JA 1/16W
R2802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3166	401 105 8104	MT-GLAZE 56K JA 1/16W
R281	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3167	401 105 8104	MT-GLAZE 56K JA 1/16W
R282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3168	401 105 0405	MT-GLAZE 100 JA 1/16W
R2831	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3169	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R2832	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3170	401 105 0504	MT-GLAZE 1K JA 1/16W
R2861	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3171	401 105 0603	MT-GLAZE 10K JA 1/16W
R2862	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3173	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R288	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3174	401 105 0603	MT-GLAZE 10K JA 1/16W
R2892	401 105 0405	MT-GLAZE 100 JA 1/16W	R3176	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R291	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3177	401 105 0603	MT-GLAZE 10K JA 1/16W
R292	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3179	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R293	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3181	401 105 0504	MT-GLAZE 1K JA 1/16W
R294	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3182	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3183	401 105 0702	MT-GLAZE 100K JA 1/16W
R302	401 105 8005	MT-GLAZE 1M JA 1/16W	R3184	401 105 0504	MT-GLAZE 1K JA 1/16W
R303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3185	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3186	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R306	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3187	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R307	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3191	401 105 5905	MT-GLAZE 560 JA 1/16W
R3101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3192	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3102	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R3194	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3104	401 105 0405	MT-GLAZE 100 JA 1/16W	R3195	401 105 0405	MT-GLAZE 100 JA 1/16W
R3106	401 105 0405	MT-GLAZE 100 JA 1/16W	R3197	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3107	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3198	401 105 0405	MT-GLAZE 100 JA 1/16W
R3108	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R311	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R328	401 105 0603	MT-GLAZE 10K JA 1/16W
R3114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R329	401 105 0603	MT-GLAZE 10K JA 1/16W
R3116	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R331	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R332	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R333	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3119	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R334	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3121	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R336	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3122	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R337	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R3123	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description
R346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R347	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R349	401 105 0603	MT-GLAZE 10K JA 1/16W
R351	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R352	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R358	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R359	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R363	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R364	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3871	401 105 3208	MT-GLAZE 270 JA 1/16W
R3872	401 105 0504	MT-GLAZE 1K JA 1/16W
R3873	401 105 0603	MT-GLAZE 10K JA 1/16W
R3874	401 105 0405	MT-GLAZE 100 JA 1/16W
R401	401 105 2607	MT-GLAZE 22 JA 1/16W
R402	401 105 2607	MT-GLAZE 22 JA 1/16W
R403	401 105 0504	MT-GLAZE 1K JA 1/16W
R404	401 105 0504	MT-GLAZE 1K JA 1/16W
R406	401 105 2607	MT-GLAZE 22 JA 1/16W
R407	401 105 2607	MT-GLAZE 22 JA 1/16W
R408	401 105 0504	MT-GLAZE 1K JA 1/16W
R409	401 105 0504	MT-GLAZE 1K JA 1/16W
R411	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R412	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R413	401 105 0504	MT-GLAZE 1K JA 1/16W
R417	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R418	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R419	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R424	401 105 0504	MT-GLAZE 1K JA 1/16W
R426	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R427	401 105 0504	MT-GLAZE 1K JA 1/16W
R431	401 105 0504	MT-GLAZE 1K JA 1/16W
R432	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R433	401 105 0306	MT-GLAZE 10 JA 1/16W
R434	401 105 0306	MT-GLAZE 10 JA 1/16W
R436	401 105 0306	MT-GLAZE 10 JA 1/16W
R437	401 105 0306	MT-GLAZE 10 JA 1/16W
R438	401 105 0306	MT-GLAZE 10 JA 1/16W
R439	401 105 0306	MT-GLAZE 10 JA 1/16W
R450	401 105 0504	MT-GLAZE 1K JA 1/16W
R451	401 105 0306	MT-GLAZE 10 JA 1/16W
R452	401 105 0306	MT-GLAZE 10 JA 1/16W
R453	401 105 0306	MT-GLAZE 10 JA 1/16W
R454	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R456	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R457	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R458	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R459	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R461	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R462	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R463	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R464	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R466	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R467	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R468	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R469	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R471	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R472	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R473	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R474	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R476	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R477	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R478	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R479	401 105 2607	MT-GLAZE 22 JA 1/16W
R481	401 105 2607	MT-GLAZE 22 JA 1/16W
R482	401 105 0504	MT-GLAZE 1K JA 1/16W
R483	401 105 0504	MT-GLAZE 1K JA 1/16W
R4834	401 105 0603	MT-GLAZE 10K JA 1/16W
R4861	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R4862	401 038 5003	MT-GLAZE 390 JA 1/10W
R4863	401 105 4502	MT-GLAZE 390 JA 1/16W
R4869	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4896	401 105 0504	MT-GLAZE 1K JA 1/16W
R501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R502	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R514	401 105 0306	MT-GLAZE 10 JA 1/16W
R517	401 105 0504	MT-GLAZE 1K JA 1/16W
R518	401 105 0504	MT-GLAZE 1K JA 1/16W
R5201	401 105 1303	MT-GLAZE 15 JA 1/16W
R5202	401 105 0405	MT-GLAZE 100 JA 1/16W
R5203	401 105 0405	MT-GLAZE 100 JA 1/16W
R5204	401 105 0405	MT-GLAZE 100 JA 1/16W
R5206	401 105 0405	MT-GLAZE 100 JA 1/16W
R5207	401 105 0405	MT-GLAZE 100 JA 1/16W
R5208	401 105 0405	MT-GLAZE 100 JA 1/16W
R5209	401 105 0405	MT-GLAZE 100 JA 1/16W
R521	401 105 0306	MT-GLAZE 10 JA 1/16W
R5211	401 105 0405	MT-GLAZE 100 JA 1/16W
R5212	401 105 0405	MT-GLAZE 100 JA 1/16W
R5213	401 105 0405	MT-GLAZE 100 JA 1/16W
R5214	401 105 0405	MT-GLAZE 100 JA 1/16W
R5216	401 105 0405	MT-GLAZE 100 JA 1/16W
R5217	401 105 0504	MT-GLAZE 1K JA 1/16W
R5218	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R522	401 105 0306	MT-GLAZE 10 JA 1/16W
R523	401 105 0306	MT-GLAZE 10 JA 1/16W
R524	401 105 0306	MT-GLAZE 10 JA 1/16W
R526	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R527	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R528	401 105 0504	MT-GLAZE 1K JA 1/16W
R529	401 105 0504	MT-GLAZE 1K JA 1/16W
R5301	401 105 0405	MT-GLAZE 100 JA 1/16W
R5302	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R5303	401 105 0405	MT-GLAZE 100 JA 1/16W
R5304	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R5306	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R5307	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R5308	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5309	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5311	401 105 0405	MT-GLAZE 100 JA 1/16W
R5312	401 105 0504	MT-GLAZE 1K JA 1/16W
R5313	401 105 0405	MT-GLAZE 100 JA 1/16W
R5314	401 105 0405	MT-GLAZE 100 JA 1/16W
R5316	401 105 6100	MT-GLAZE 560K JA 1/16W
R5317	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R5318	401 105 0504	MT-GLAZE 1K JA 1/16W
R5319	401 105 0603	MT-GLAZE 10K JA 1/16W
R532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5321	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5323	401 105 0405	MT-GLAZE 100 JA 1/16W
R5324	401 105 0504	MT-GLAZE 1K JA 1/16W
R5326	401 105 0405	MT-GLAZE 100 JA 1/16W
R5327	401 105 0504	MT-GLAZE 1K JA 1/16W
R5340	401 112 8005	MT-GLAZE 5.6 JA 1/16W
R5341	401 105 0405	MT-GLAZE 100 JA 1/16W
R5342	401 105 8005	MT-GLAZE 1M JA 1/16W
R5344	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R5346	401 105 0603	MT-GLAZE 10K JA 1/16W
R5348	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5351	401 158 4108	MT-GLAZE 4.7 JA 1/16W

Electrical Parts List

Key No.	Part No.	Description
R5352	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R5353	401 113 5201	MT-GLAZE 360 JA 1/16W
R5354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5358	401 105 0405	MT-GLAZE 100 JA 1/16W
R5359	401 105 0405	MT-GLAZE 100 JA 1/16W
R5363	401 105 0603	MT-GLAZE 10K JA 1/16W
R5364	401 105 0603	MT-GLAZE 10K JA 1/16W
R5366	401 105 0405	MT-GLAZE 100 JA 1/16W
R5367	401 105 0405	MT-GLAZE 100 JA 1/16W
R5368	401 105 0603	MT-GLAZE 10K JA 1/16W
R5371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R544	401 105 0306	MT-GLAZE 10 JA 1/16W
R547	401 105 0504	MT-GLAZE 1K JA 1/16W
R548	401 105 0504	MT-GLAZE 1K JA 1/16W
R551	401 105 0306	MT-GLAZE 10 JA 1/16W
R552	401 105 0306	MT-GLAZE 10 JA 1/16W
R553	401 105 0306	MT-GLAZE 10 JA 1/16W
R554	401 105 0306	MT-GLAZE 10 JA 1/16W
R556	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R557	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R558	401 105 0504	MT-GLAZE 1K JA 1/16W
R559	401 105 0504	MT-GLAZE 1K JA 1/16W
R561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R572	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R574	401 105 0306	MT-GLAZE 10 JA 1/16W
R577	401 105 0504	MT-GLAZE 1K JA 1/16W
R578	401 105 0504	MT-GLAZE 1K JA 1/16W
R581	401 105 0306	MT-GLAZE 10 JA 1/16W
R582	401 105 0306	MT-GLAZE 10 JA 1/16W
R583	401 105 0306	MT-GLAZE 10 JA 1/16W
R584	401 105 0306	MT-GLAZE 10 JA 1/16W
R586	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R587	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R588	401 105 0504	MT-GLAZE 1K JA 1/16W
R589	401 105 0504	MT-GLAZE 1K JA 1/16W
R6201	401 105 5103	MT-GLAZE 47 JA 1/16W
R6202	401 105 7206	MT-GLAZE 82 JA 1/16W
R6203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6231	401 105 5103	MT-GLAZE 47 JA 1/16W
R6232	401 105 7206	MT-GLAZE 82 JA 1/16W
R6233	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6247	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6261	401 105 5103	MT-GLAZE 47 JA 1/16W
R6262	401 105 7206	MT-GLAZE 82 JA 1/16W
R6263	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6277	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6281	401 105 0405	MT-GLAZE 100 JA 1/16W
R6282	401 105 0405	MT-GLAZE 100 JA 1/16W
R6283	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6285	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6286	401 105 0405	MT-GLAZE 100 JA 1/16W
R6287	401 105 0405	MT-GLAZE 100 JA 1/16W
R65A	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R66A	401 105 0603	MT-GLAZE 10K JA 1/16W
R66B	401 105 0603	MT-GLAZE 10K JA 1/16W
R66C	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6601	645 030 1056	PROTECTOR,IC 3.8A 72V
⚠R6602	402 083 2207	FUSIBLE RES 4.7 JH 1/4W
⚠R6606	402 080 7007	FUSIBLE RES 1.8 JH 1/4W
R6622	401 198 8005	MT-GLAZE 56 JA 1W
R6623	401 198 8005	MT-GLAZE 56 JA 1W
R6624	401 198 8005	MT-GLAZE 56 JA 1W
R6631	401 234 4701	MT-GLAZE 3.3 JA 1W
R6632	401 234 4701	MT-GLAZE 3.3 JA 1W
R6641	401 234 8105	MT-GLAZE 4.7 JA 1W
R6642	401 234 8105	MT-GLAZE 4.7 JA 1W
R6651	401 235 6209	MT-GLAZE 2.7 JA 1W
R6652	401 235 6209	MT-GLAZE 2.7 JA 1W
R6671	401 218 8602	MT-GLAZE 5.6 JA 1W
R6672	401 218 8602	MT-GLAZE 5.6 JA 1W
R6673	401 105 0405	MT-GLAZE 100 JA 1/16W
R67A	401 217 3806	MT-GLAZE 27K FA 1/16W
R67B	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R67C	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R67D	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R67E	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R67F	401 105 0603	MT-GLAZE 10K JA 1/16W
R67G	401 105 0504	MT-GLAZE 1K JA 1/16W
R67H	401 105 2904	MT-GLAZE 22K JA 1/16W
R67I	401 105 0504	MT-GLAZE 1K JA 1/16W
R67K	401 105 0603	MT-GLAZE 10K JA 1/16W
R67P	401 105 0504	MT-GLAZE 1K JA 1/16W
R67Q	401 105 0603	MT-GLAZE 10K JA 1/16W
R670	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R672	401 105 4007	MT-GLAZE 330 JA 1/16W
R673	401 230 4705	MT-GLAZE 680 JA 1W
R674	401 105 8005	MT-GLAZE 1M JA 1/16W
R675	401 113 8400	MT-GLAZE 75K JA 1/16W
R676	401 105 0702	MT-GLAZE 100K JA 1/16W
R679	401 105 0603	MT-GLAZE 10K JA 1/16W
R68A	401 217 3806	MT-GLAZE 27K FA 1/16W
R68B	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R68C	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R68D	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R68E	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R68F	401 105 0603	MT-GLAZE 10K JA 1/16W
R68G	401 105 0504	MT-GLAZE 1K JA 1/16W
R68H	401 105 2904	MT-GLAZE 22K JA 1/16W
R68I	401 105 0504	MT-GLAZE 1K JA 1/16W
R68K	401 105 0603	MT-GLAZE 10K JA 1/16W
R68P	401 105 0504	MT-GLAZE 1K JA 1/16W
R68Q	401 105 0603	MT-GLAZE 10K JA 1/16W
R680	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6801	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R6802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6803	401 105 0603	MT-GLAZE 10K JA 1/16W
R6804	401 105 5202	MT-GLAZE 470 JA 1/16W
R6806	401 105 1600	MT-GLAZE 15K JA 1/16W
R6807	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R6808	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R6809	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R6811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6812	401 105 5202	MT-GLAZE 470 JA 1/16W
R6813	401 105 0603	MT-GLAZE 10K JA 1/16W
R6818	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R6819	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R682	401 105 4007	MT-GLAZE 330 JA 1/16W
R6821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6822	401 105 5202	MT-GLAZE 470 JA 1/16W
R6823	401 105 0603	MT-GLAZE 10K JA 1/16W
R683	401 230 4705	MT-GLAZE 680 JA 1W
R6831	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6832	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6836	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6837	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R684	401 105 8005	MT-GLAZE 1M JA 1/16W
R6841	401 105 4502	MT-GLAZE 390 JA 1/16W
R6843	401 105 4502	MT-GLAZE 390 JA 1/16W
R6846	401 105 5301	MT-GLAZE 4.7K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description
R6848	401 105 0504	MT-GLAZE 1K JA 1/16W
R6849	401 105 0504	MT-GLAZE 1K JA 1/16W
R685	401 113 8400	MT-GLAZE 75K JA 1/16W
R6851	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6853	401 105 0504	MT-GLAZE 1K JA 1/16W
R6854	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6857	401 105 0504	MT-GLAZE 1K JA 1/16W
R6859	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R686	401 105 0702	MT-GLAZE 100K JA 1/16W
R689	401 105 0603	MT-GLAZE 10K JA 1/16W
R69A	401 105 0603	MT-GLAZE 10K JA 1/16W
R69B	401 105 0603	MT-GLAZE 10K JA 1/16W
R69C	401 105 0603	MT-GLAZE 10K JA 1/16W
R69D	401 105 0603	MT-GLAZE 10K JA 1/16W
R69E	401 105 0603	MT-GLAZE 10K JA 1/16W
R69F	401 105 0603	MT-GLAZE 10K JA 1/16W
R69G	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R69H	401 105 0504	MT-GLAZE 1K JA 1/16W
R691	401 105 2904	MT-GLAZE 22K JA 1/16W
R692	401 105 0702	MT-GLAZE 100K JA 1/16W
R695	401 225 4604	MT-GLAZE 1.2 JA 1W
R697	401 258 4404	MT-GLAZE 5.6 JA 1/3W
R699	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R803	401 105 0603	MT-GLAZE 10K JA 1/16W
R805	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R807	401 105 0603	MT-GLAZE 10K JA 1/16W
R811	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R8111	401 105 5400	MT-GLAZE 47K JA 1/16W
R8112	401 105 5400	MT-GLAZE 47K JA 1/16W
R8113	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8116	401 105 0603	MT-GLAZE 10K JA 1/16W
R8117	401 105 0603	MT-GLAZE 10K JA 1/16W
R8118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R812	401 105 0603	MT-GLAZE 10K JA 1/16W
R8121	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8122	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8123	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8124	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8126	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R813	401 105 0405	MT-GLAZE 100 JA 1/16W
R8131	401 105 5400	MT-GLAZE 47K JA 1/16W
R8132	401 105 5400	MT-GLAZE 47K JA 1/16W
R8133	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8134	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R814	401 105 0603	MT-GLAZE 10K JA 1/16W
R8141	401 105 0603	MT-GLAZE 10K JA 1/16W
R8143	401 105 0603	MT-GLAZE 10K JA 1/16W
R8146	401 105 0603	MT-GLAZE 10K JA 1/16W
R8148	401 105 0603	MT-GLAZE 10K JA 1/16W
R8151	401 105 0603	MT-GLAZE 10K JA 1/16W
R8153	401 105 0603	MT-GLAZE 10K JA 1/16W
R816	401 105 8203	MT-GLAZE 68K JA 1/16W
R8161	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R8162	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R8163	401 105 0405	MT-GLAZE 100 JA 1/16W
R8164	401 105 0405	MT-GLAZE 100 JA 1/16W
R817	401 105 0405	MT-GLAZE 100 JA 1/16W
R818	401 105 0603	MT-GLAZE 10K JA 1/16W
R819	401 105 0405	MT-GLAZE 100 JA 1/16W
R821	401 105 0405	MT-GLAZE 100 JA 1/16W
R822	401 105 0405	MT-GLAZE 100 JA 1/16W
R823	401 105 0603	MT-GLAZE 10K JA 1/16W
R827	401 105 0603	MT-GLAZE 10K JA 1/16W
R828	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R829	401 105 4007	MT-GLAZE 330 JA 1/16W
R833	401 105 0603	MT-GLAZE 10K JA 1/16W
R836	401 105 0603	MT-GLAZE 10K JA 1/16W
R837	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R838	401 105 0603	MT-GLAZE 10K JA 1/16W
R839	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R841	401 105 0405	MT-GLAZE 100 JA 1/16W
R842	401 105 0405	MT-GLAZE 100 JA 1/16W
R843	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R844	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R846	401 105 0603	MT-GLAZE 10K JA 1/16W
R847	401 105 0603	MT-GLAZE 10K JA 1/16W
R848	401 105 4007	MT-GLAZE 330 JA 1/16W
R849	401 105 6506	MT-GLAZE 680 JA 1/16W
R851	401 105 0603	MT-GLAZE 10K JA 1/16W
R852	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R853	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R854	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R856	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R857	401 105 0405	MT-GLAZE 100 JA 1/16W
R858	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R859	401 105 0603	MT-GLAZE 10K JA 1/16W
R861	401 105 0306	MT-GLAZE 10 JA 1/16W
R862	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R863	401 105 0603	MT-GLAZE 10K JA 1/16W
R866	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R867	401 105 0603	MT-GLAZE 10K JA 1/16W
R869	401 105 0405	MT-GLAZE 100 JA 1/16W
R871	401 105 0603	MT-GLAZE 10K JA 1/16W
R872	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R873	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R874	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R876	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R877	401 105 0405	MT-GLAZE 100 JA 1/16W
R879	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R881	401 105 0603	MT-GLAZE 10K JA 1/16W
R882	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R883	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9791	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9801	401 105 5400	MT-GLAZE 47K JA 1/16W
R9803	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9807	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9811	401 105 8005	MT-GLAZE 1M JA 1/16W
R9812	401 105 0405	MT-GLAZE 100 JA 1/16W
R9813	401 105 0405	MT-GLAZE 100 JA 1/16W
R9814	401 105 0405	MT-GLAZE 100 JA 1/16W
R9816	401 105 0405	MT-GLAZE 100 JA 1/16W
R9822	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9882	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
COIL		
L201	645 059 2249	INDUCTOR,2.2U M
L202	645 059 2249	INDUCTOR,2.2U M
L203	645 059 2249	INDUCTOR,2.2U M
L2101	645 059 1754	INDUCTOR,22U J
L2102	645 043 5898	INDUCTOR,47U J
L2103	645 043 5898	INDUCTOR,47U J
L2111	645 059 1754	INDUCTOR,22U J
L2112	645 059 1754	INDUCTOR,22U J
L2116	645 059 1723	INDUCTOR,100U J
L2117	645 059 1730	INDUCTOR,15U J
L2118	645 059 1754	INDUCTOR,22U J
L2501	645 059 1754	INDUCTOR,22U J
L2531	645 059 1754	INDUCTOR,22U J
L281	645 026 1008	INDUCTOR,3.3U M
	645 062 2823	INDUCTOR,3.3U M
L3101	401 035 4108	MT-GLAZE 0.000 ZA 1/8W

Electrical Parts List

Key No.	Part No.	Description
L3103	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L3191	645 043 5881	INDUCTOR,10U J
L3194	645 059 1754	INDUCTOR,22U J
L3197	645 059 1754	INDUCTOR,22U J
L501	645 059 2133	INDUCTOR,3.3U M
L502	645 059 2133	INDUCTOR,3.3U M
L503	645 059 2133	INDUCTOR,3.3U M
L504	645 059 2133	INDUCTOR,3.3U M
L531	645 059 2133	INDUCTOR,3.3U M
L532	645 059 2133	INDUCTOR,3.3U M
L533	645 059 2133	INDUCTOR,3.3U M
L534	645 059 2133	INDUCTOR,3.3U M
L561	645 059 2133	INDUCTOR,3.3U M
L562	645 059 2133	INDUCTOR,3.3U M
L563	645 059 2133	INDUCTOR,3.3U M
L564	645 059 2133	INDUCTOR,3.3U M
L6201	645 026 1008	INDUCTOR,3.3U M
	645 062 2823	INDUCTOR,3.3U M
L6601	645 059 2133	INDUCTOR,3.3U M
L671	645 038 4561	INDUCTOR,100U M
L681	645 038 4561	INDUCTOR,100U M
L9811	645 059 1747	INDUCTOR,2.2U J
DIODE		
D1281	407 149 0807	DIODE 1SS355-TE-17
D2451	407 149 0807	DIODE 1SS355-TE-17
D2561	407 149 0807	DIODE 1SS355-TE-17
D2562	407 149 0807	DIODE 1SS355-TE-17
D2891	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D2892	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D3102	407 149 0807	DIODE 1SS355-TE-17
D3103	407 149 0807	DIODE 1SS355-TE-17
D3104	407 149 0807	DIODE 1SS355-TE-17
D3884	407 149 0807	DIODE 1SS355-TE-17
D4812	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4813	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4891	407 149 0807	DIODE 1SS355-TE-17
D5301	407 149 0807	DIODE 1SS355-TE-17
D65B	407 149 0807	DIODE 1SS355-TE-17
D651	407 232 0400	ZENER DIODE UDZS2.0B-TE-1
	407 187 7103	ZENER DIODE UDZ2.0B-TE-17
D652	401 259 1501	MT-GLAZE 2.2 JA 1/3W
D6601	407 149 0807	DIODE 1SS355-TE-17
D6603	407 149 0807	DIODE 1SS355-TE-17
D6607	407 149 0807	DIODE 1SS355-TE-17
D6608	407 149 0807	DIODE 1SS355-TE-17
D6609	407 149 0807	DIODE 1SS355-TE-17
D6611	407 149 0807	DIODE 1SS355-TE-17
D6613	407 149 0807	DIODE 1SS355-TE-17
D6614	407 149 0807	DIODE 1SS355-TE-17
D6641	407 149 0807	DIODE 1SS355-TE-17
D6651	407 149 0807	DIODE 1SS355-TE-17
D67P	407 206 6308	ZD UDZS-TE-175.1B
	407 179 1706	ZENER DIODE UDZ5.1B-TE-17
D67Q	407 149 0807	DIODE 1SS355-TE-17
D671	407 201 2701	DIODE RB051L-40-TE25
D68P	407 206 6308	ZD UDZS-TE-175.1B
	407 179 1706	ZENER DIODE UDZ5.1B-TE-17
D68Q	407 149 0807	DIODE 1SS355-TE-17
D6801	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D6802	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D6803	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D6804	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D681	407 201 2701	DIODE RB051L-40-TE25
D6831	407 209 7500	LED SML-210YT T86 L
D6832	407 203 7803	LED SML-210LT T86 M
D6833	407 199 1809	LED SML-020MLT-T86
D6841	407 187 8209	ZENER DIODE UDZ12B-TE-17
D6842	407 187 8209	ZENER DIODE UDZ12B-TE-17
D6843	407 187 8209	ZENER DIODE UDZ12B-TE-17
D6844	407 187 8209	ZENER DIODE UDZ12B-TE-17
D69A	407 004 0706	DIODE DCB015-TB
D69B	407 004 0706	DIODE DCB015-TB
D69C	407 149 0807	DIODE 1SS355-TE-17
D69D	407 149 0807	DIODE 1SS355-TE-17
D801	407 149 0807	DIODE 1SS355-TE-17
D802	407 149 0807	DIODE 1SS355-TE-17
D8101	407 201 2701	DIODE RB051L-40-TE25
D8102	407 149 0807	DIODE 1SS355-TE-17
D8121	407 201 2701	DIODE RB051L-40-TE25
D8122	407 149 0807	DIODE 1SS355-TE-17
D856	407 149 0807	DIODE 1SS355-TE-17
D857	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
IC65A	645 062 3127	UNIT,POWER(DC)
NMI	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6801	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6802	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6803	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6804	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6806	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6807	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6808	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6809	645 026 2791	SWITCH,PUSH 1P-1TX1
SW6811	645 026 2791	SWITCH,PUSH 1P-1TX1
X1321	645 047 6587	OSC,CRYSTAL 26.000MHZ
X1331	645 047 6587	OSC,CRYSTAL 26.000MHZ
X301	645 041 5708	OSC,CRYSTAL 14.31818MHZ
X3101	645 047 1568	OSC,CRYSTAL 16.200MHZ
X5351	645 053 7677	OSC,CERAMIC 503.0KHZ
X851	645 030 5436	OSC,CRYSTAL 12.288MHZ
X9811	645 035 8906	OSC,CRYSTAL 48MHZ

RC BOARD

610 309 3659 ASSY,PWB,RC MT3A

CAPACITOR		
C2821	403 283 6309	CERAMIC 1U Z 10V
C2822	403 157 6602	CERAMIC 470P K 50V
RESISTOR		
R2821	401 105 5103	MT-GLAZE 47 JA 1/16W
R2822	401 105 0405	MT-GLAZE 100 JA 1/16W
MISCELLANEOUS		
A2801	645 056 9111	UNIT,REMOCON RECEIVER

LAMP COVER SW BOARD

610 310 3143 ASSY,PWB,LAMP COVER SW MA

MISCELLANEOUS		
SW901	645 063 8077	SWITCH,PUSH 2P-2TX3

POWER BOARD

610 310 3167 ASSY,PWB,POWER MT3A

TRANSISTOR

Key No.	Part No.	Description
Q611	405 140 3704	TR 2SK2698
Q621	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q622	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F
Q642	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q651	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q661	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q662	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S

INTEGRATED CIRCUIT

Key No.	Part No.	Description
IC621	409 523 1400	IC FA5502M
IC631	409 558 4209	IC STR-Z2156A
IC651	409 344 6509	IC UPC1093T-E1

CAPACITOR

Key No.	Part No.	Description		
⚠C601	404 081 4702	MT-POLYEST	0.22U M	275V
⚠C602	404 081 4702	MT-POLYEST	0.22U M	275V
C611	403 222 1303	CERAMIC	1000P K	1K
C612	403 222 1303	CERAMIC	1000P K	1K
C613	403 372 0003	MT-POLYEST	2.2U K	400V
C614	403 372 0003	MT-POLYEST	2.2U K	400V
C615	404 095 1100	ELECT	180U M	450V
	404 095 1209	ELECT	180U M	450V
C616	403 371 8604	MT-POLYEST	0.1U K	450V
C62A	403 157 3304	CERAMIC	68P J	50V
C62B	403 157 6602	CERAMIC	470P K	50V
C62C	403 325 6304	CERAMIC	0.22U K	10V
C62D	403 164 0204	CERAMIC	0.1U Z	25V
C62E	403 164 0204	CERAMIC	0.1U Z	25V
C62I	403 149 9208	CERAMIC	0.01U Z	50V
C62J	403 169 2807	CERAMIC	330P J	50V
C62K	403 323 3602	CERAMIC	0.047U K	50V
C62M	403 164 0204	CERAMIC	0.1U Z	25V
C62R	403 175 3706	ELECT	4.7U M	50V
C62T	403 164 0204	CERAMIC	0.1U Z	25V
C631	403 192 4809	TA-SOLID	2.2U M	35V
C633	403 113 3805	CERAMIC	1000P K	50V
C634	403 247 3306	CERAMIC	330P K	2K
C635	403 167 8603	CERAMIC	220P K	2K
C636	403 070 2606	CERAMIC	0.1U Z	50V
C637	403 157 6800	CERAMIC	680P K	50V
C638	403 208 1402	TA-SOLID	1U M	25V
C639	403 356 1804	ELECT	220U M	35V
C640	403 164 0204	CERAMIC	0.1U Z	25V
C641	403 352 8203	CERAMIC	0.47U Z	16V
C642	403 083 4307	POLYPRO	0.022U J	400V
C643	403 256 2406	CERAMIC	0.22U Z	50V
C644	403 164 0204	CERAMIC	0.1U Z	25V
C651	403 369 2409	ELECT	2700U M	25V
C652	403 350 5303	ELECT	3900U M	10V
C653	403 331 0303	ELECT	470U M	16V
C654	403 164 0204	CERAMIC	0.1U Z	25V
C655	403 164 0204	CERAMIC	0.1U Z	25V
C656	403 345 9606	CERAMIC	0.47U K	10V
C657	403 157 6404	CERAMIC	330P K	50V
C658	403 157 6404	CERAMIC	330P K	50V
C659	403 218 8101	ELECT	1000U M	25V
C691	403 233 0401	ELECT	330U M	25V
C693	403 206 9004	ELECT	1000U M	6.3V
C694	403 206 9004	ELECT	1000U M	6.3V

RESISTOR

Key No.	Part No.	Description		
⚠R601	401 287 5700	MT-GLAZE	220K JA	1W
R61A	401 275 2902	MT-GLAZE	68K JA	1W
R61B	401 275 2902	MT-GLAZE	68K JA	1W
R61E	401 275 2902	MT-GLAZE	68K JA	1W
R61F	401 275 2902	MT-GLAZE	68K JA	1W
R611	402 088 0307	RESISTER	0.15 KA	2W
R612	402 088 0307	RESISTER	0.15 KA	2W
R615	401 242 3901	MT-GLAZE	240K JA	1/2W
R616	401 242 3901	MT-GLAZE	240K JA	1/2W
R617	401 259 9002	MT-GLAZE	150K FA	1/2W
R618	401 259 9002	MT-GLAZE	150K FA	1/2W
R619	401 259 9002	MT-GLAZE	150K FA	1/2W
R62A	401 105 1501	MT-GLAZE	1.5K JA	1/16W
R62B	401 105 0603	MT-GLAZE	10K JA	1/16W
R62C	401 105 5509	MT-GLAZE	470K JA	1/16W
R62D	401 105 3802	MT-GLAZE	30K JA	1/16W
R62E	401 113 5805	MT-GLAZE	1.1K JA	1/16W
R62F	401 218 4406	MT-GLAZE	1.2K FA	1/16W
R62G	401 105 0405	MT-GLAZE	100 JA	1/16W
R62H	401 105 4007	MT-GLAZE	330 JA	1/16W
R62I	401 158 4108	MT-GLAZE	4.7 JA	1/16W
R62J	401 105 1907	MT-GLAZE	180 JA	1/16W
R62L	401 113 6109	MT-GLAZE	2.4K JA	1/16W
R62M	401 105 4502	MT-GLAZE	390 JA	1/16W
R62P	401 105 5400	MT-GLAZE	47K JA	1/16W
R62Q	401 105 2607	MT-GLAZE	22 JA	1/16W
R62R	401 177 2208	MT-GLAZE	5.6M JA	1/16W
R62T	401 105 3000	MT-GLAZE	220K JA	1/16W
R620	401 259 9002	MT-GLAZE	150K FA	1/2W
R623	401 105 5301	MT-GLAZE	4.7K JA	1/16W
⚠R631	424 006 1302	FUSE	250V 2.5A	

Key No.	Part No.	Description
⚠R633	402 079 7803	FUSIBLE RES 22 JH 1/4W
R634	401 238 4509	MT-GLAZE 47 JA 1/3W
R635	401 105 0504	MT-GLAZE 1K JA 1/16W
R636	401 257 7406	MT-GLAZE 120 JA 1/3W
R637	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R638	401 105 0603	MT-GLAZE 10K JA 1/16W
R639	401 113 6109	MT-GLAZE 2.4K JA 1/16W
R641	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R646	401 111 6309	MT-GLAZE 470 JA 1/2W
R647	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R648	401 105 1600	MT-GLAZE 15K JA 1/16W
R651	401 105 0504	MT-GLAZE 1K JA 1/16W
R652	401 105 0306	MT-GLAZE 10 JA 1/16W
R653	401 186 0202	MT-GLAZE 10K DA 1/16W
R654	401 185 9305	MT-GLAZE 560 DA 1/16W
R655	401 185 9503	MT-GLAZE 6.8K DA 1/16W
R656	401 105 3208	MT-GLAZE 270 JA 1/16W
R657	401 105 0504	MT-GLAZE 1K JA 1/16W
R658	401 105 0504	MT-GLAZE 1K JA 1/16W
R659	401 105 0504	MT-GLAZE 1K JA 1/16W
R660	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R661	401 105 0603	MT-GLAZE 10K JA 1/16W
R662	401 230 8000	MT-GLAZE 1K JA 1/3W
R663	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R664	401 105 0603	MT-GLAZE 10K JA 1/16W
VARIABLE RESISTOR		
⚠VA601	408 018 9808	VARISTOR ENC471D-14AS
VR611	645 025 7414	VR,SEMI,1K S
TRANSFORMER		
TSW611	645 063 8756	THERMOSTATS
⚠T651	645 030 7126	TRANS,POWER,PULSE
COIL		
⚠L601	645 050 2231	LINE FILTER
⚠L611	645 048 3899	LINE FILTER
L612	645 062 3561	INDUCTOR,900U
L694	645 059 2065	INDUCTOR,10U K
DIODE		
DB611	407 202 7705	DIODE D10XB60
DS643	407 219 0805	THYRISTOR TF861S
D611	407 191 3900	DIODE FML-G16S
D612	407 149 6304	DIODE SFPB-54V
D616	407 149 0807	DIODE 1SS355-TE-17
D617	407 149 0807	DIODE 1SS355-TE-17
D618	407 149 0807	DIODE 1SS355-TE-17
D619	407 149 0807	DIODE 1SS355-TE-17
D62R	407 149 0807	DIODE 1SS355-TE-17
D631	407 190 4106	DIODE SFPL-52V
D633	407 187 8209	ZENER DIODE UDZ12B-TE-17
D636	407 226 7101	DIODE SC311-06
D651	407 222 9604	DIODE FMB-2306
D652	407 222 9703	DIODE FMJ-23L
D653	407 190 4106	DIODE SFPL-52V
D654	407 209 1201	ZD UDZS-TE-176.2B
MISCELLANEOUS		
FB611	610 229 3531	CORE
FB613	610 229 3531	CORE
FB691	610 229 3531	CORE
FB693	610 229 3531	CORE
⚠F601	423 021 7801	FUSE 250V 6.3A
F601A	645 000 5077	HOLDER,FUSE
F601B	645 000 5077	HOLDER,FUSE
⚠PC641	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
⚠PC642	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
⚠PC643	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
PTH611	408 037 5508	THERMISTOR NTH11D5R0LC

ACCESSORIES

	645 061 5122	CABLE,INTERFACE DVI-VGA
	645 063 6943	CABLE,USB
	645 061 5115	CABLE,USB
	645 063 6936	CABLE,USB
	610 296 6558	STRAP COMP-MW6P
	610 307 5853	CARRY BAG-MT3A
AC CORD		
(US)	645 002 9189	CORD,POWER-3.0MK,UL
(EU)	645 002 9196	CORD,POWER-3.0MK,EU
(UK)	645 003 1137	CORD,POWER-3.0MK,UK
OWNER'S MANUAL		
(English)	610 308 4688	OWNER'S MANUAL-MT3A
(Germany)	610 308 4695	OWNER'S MANUAL-MT3A-D
(French)	610 308 4701	OWNER'S MANUAL-MT3A-F
(Italy)	610 308 4718	OWNER'S MANUAL-MT3A-I
(Spanish)	610 308 4725	OWNER'S MANUAL-MT3A-E
REMOTE CONTROL		
	645 061 4255	ASSY,REMOCON CXMJ
	610 307 6461	RC-BATTERY LID-CXMJ

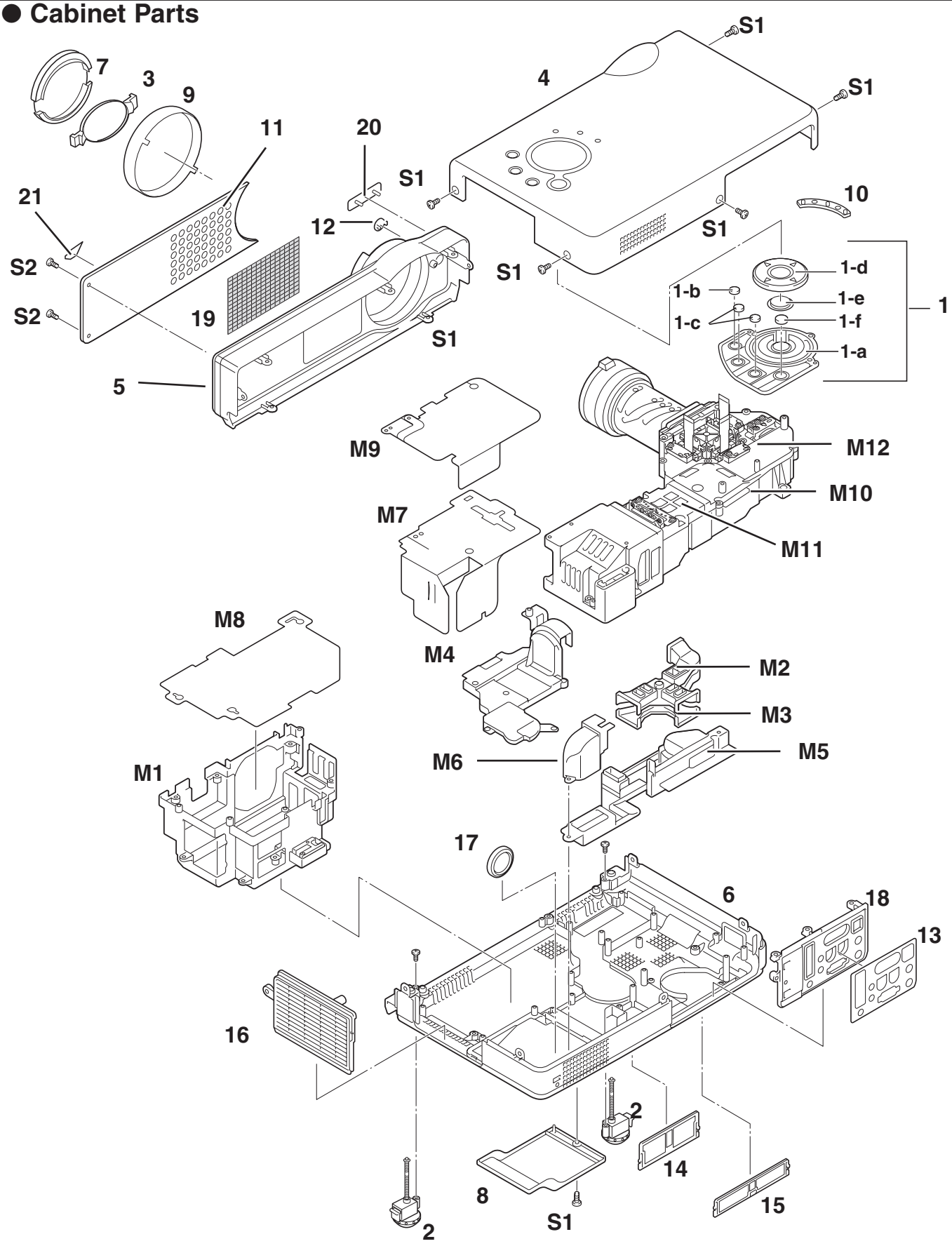
Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description

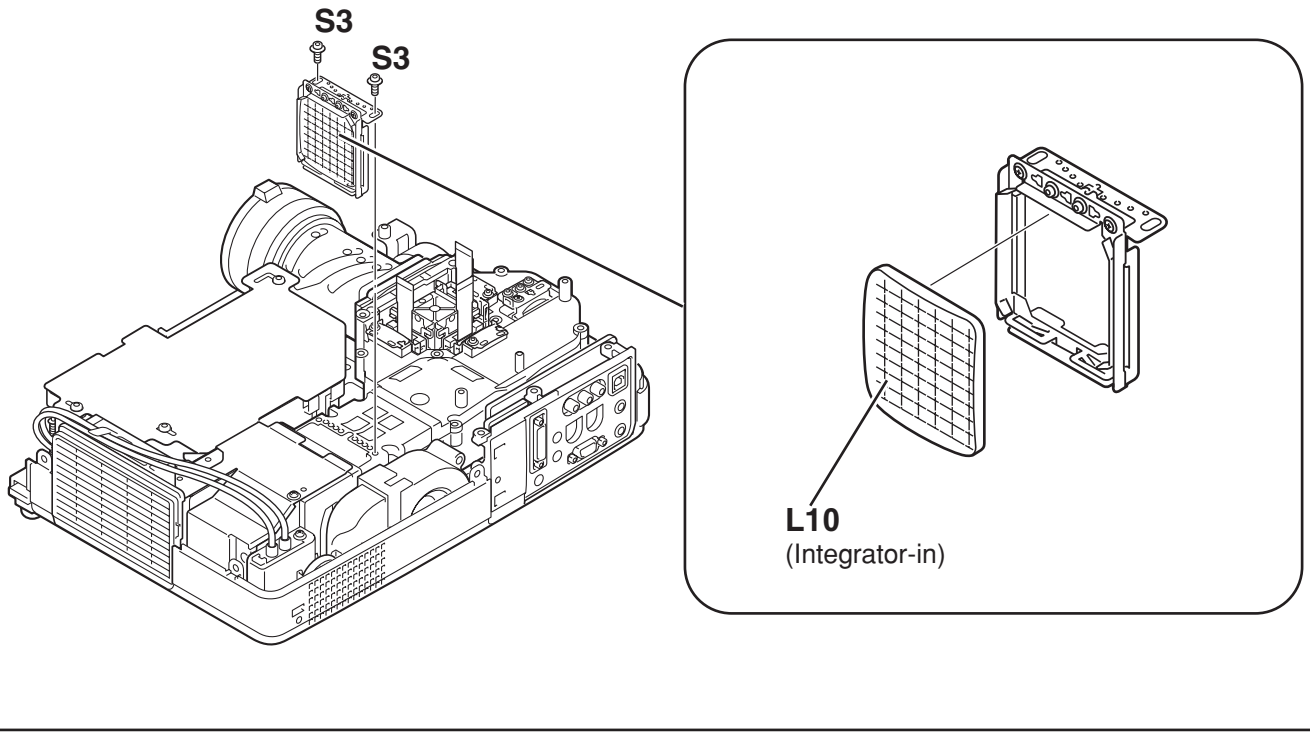
■ Mechanical Parts List

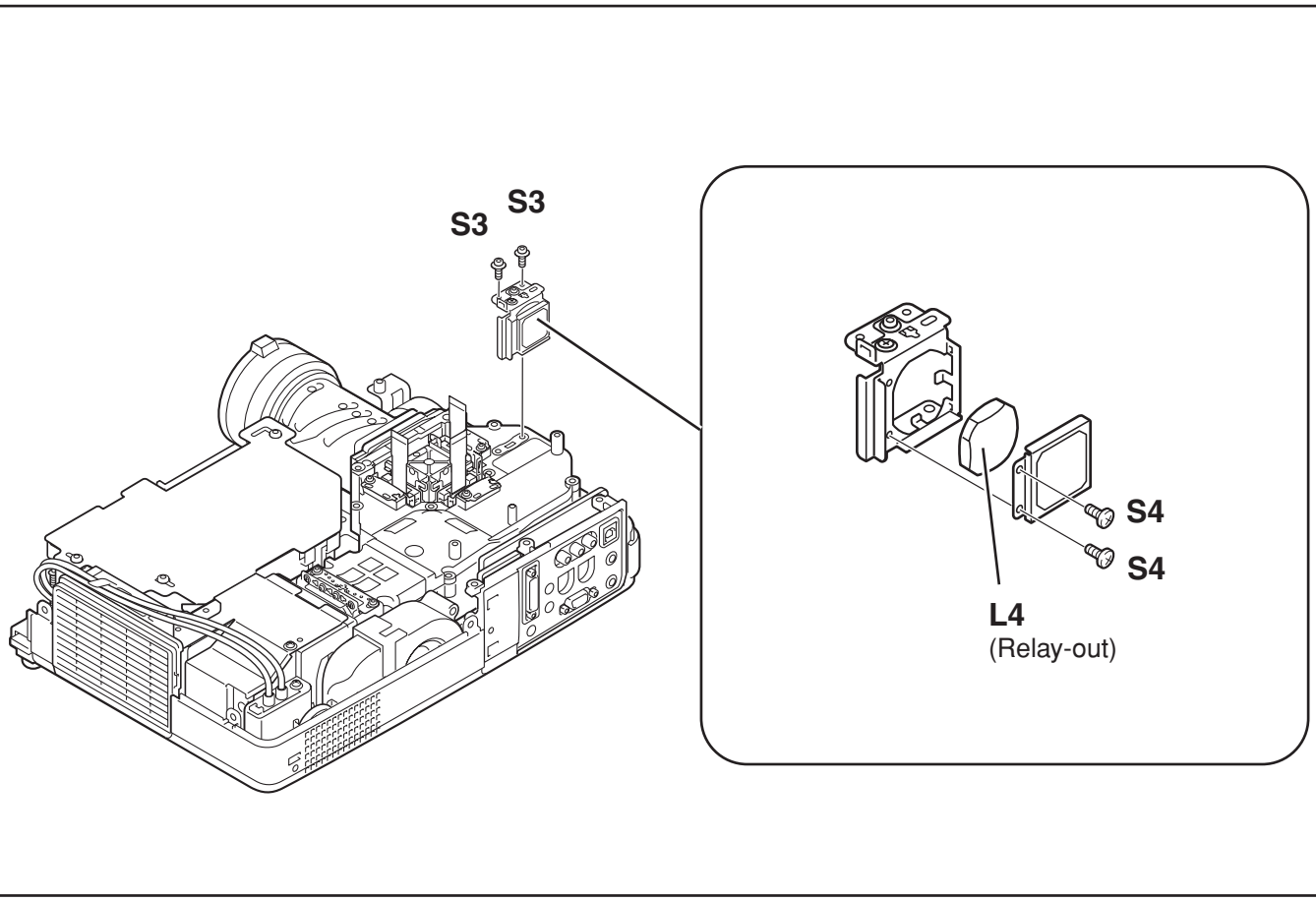
Note: Parts order must contain Chassis No., Part No., and Descriptions.

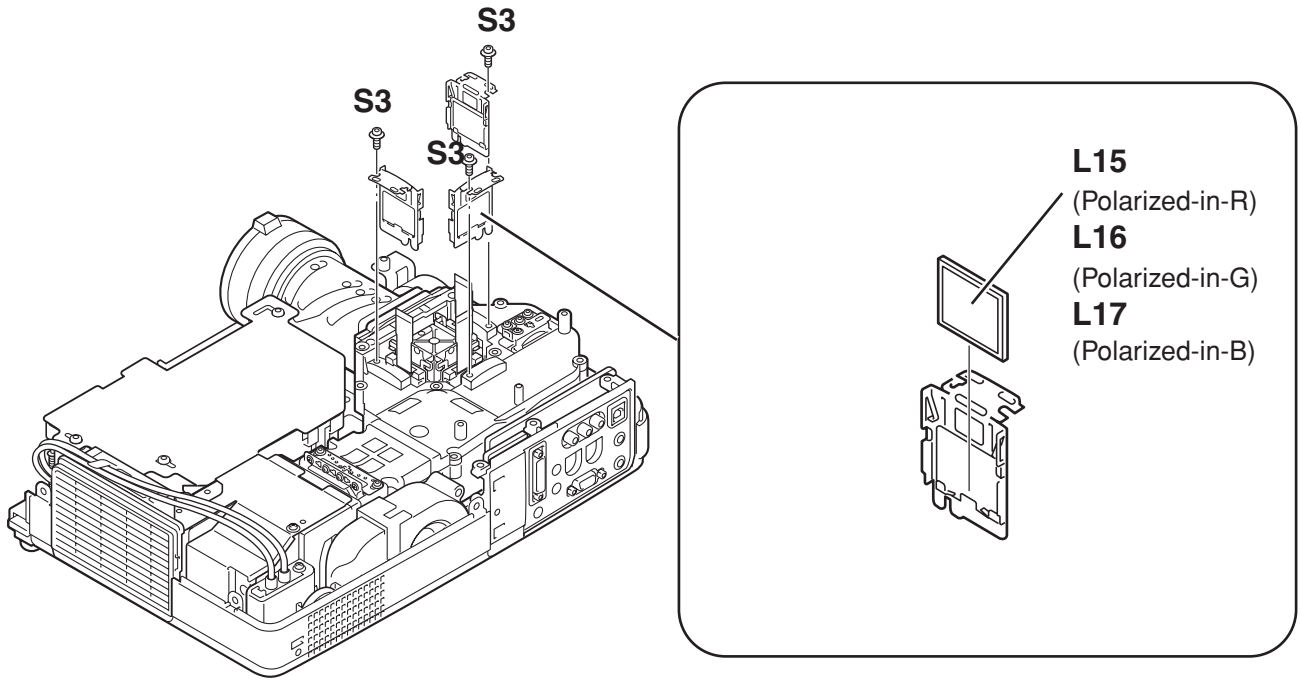
● Cabinet Parts

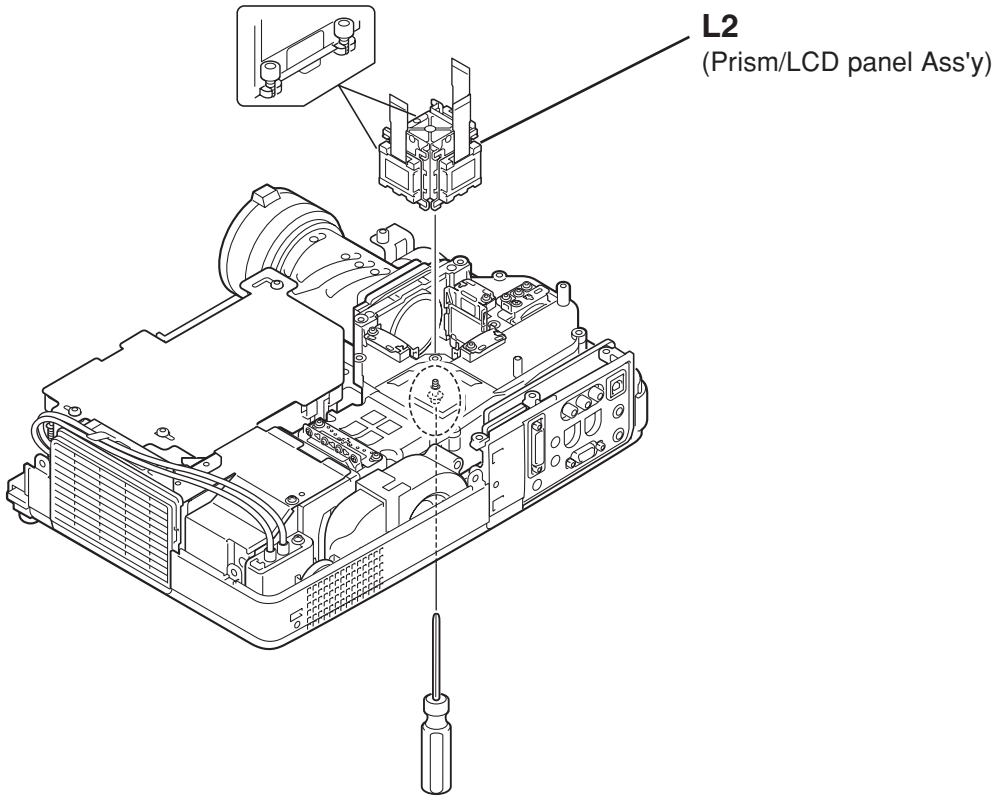


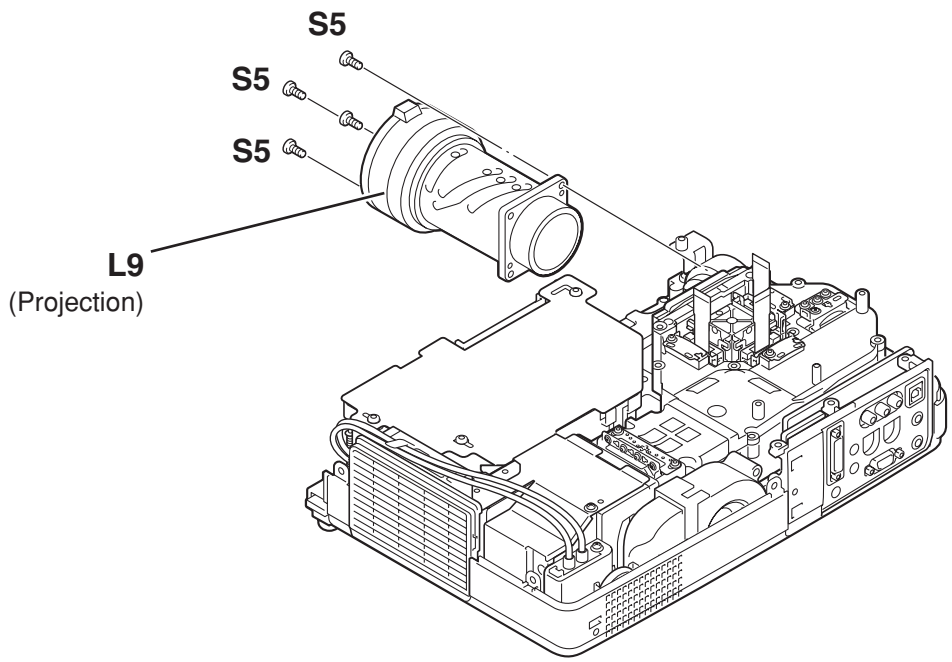
● Optical Parts

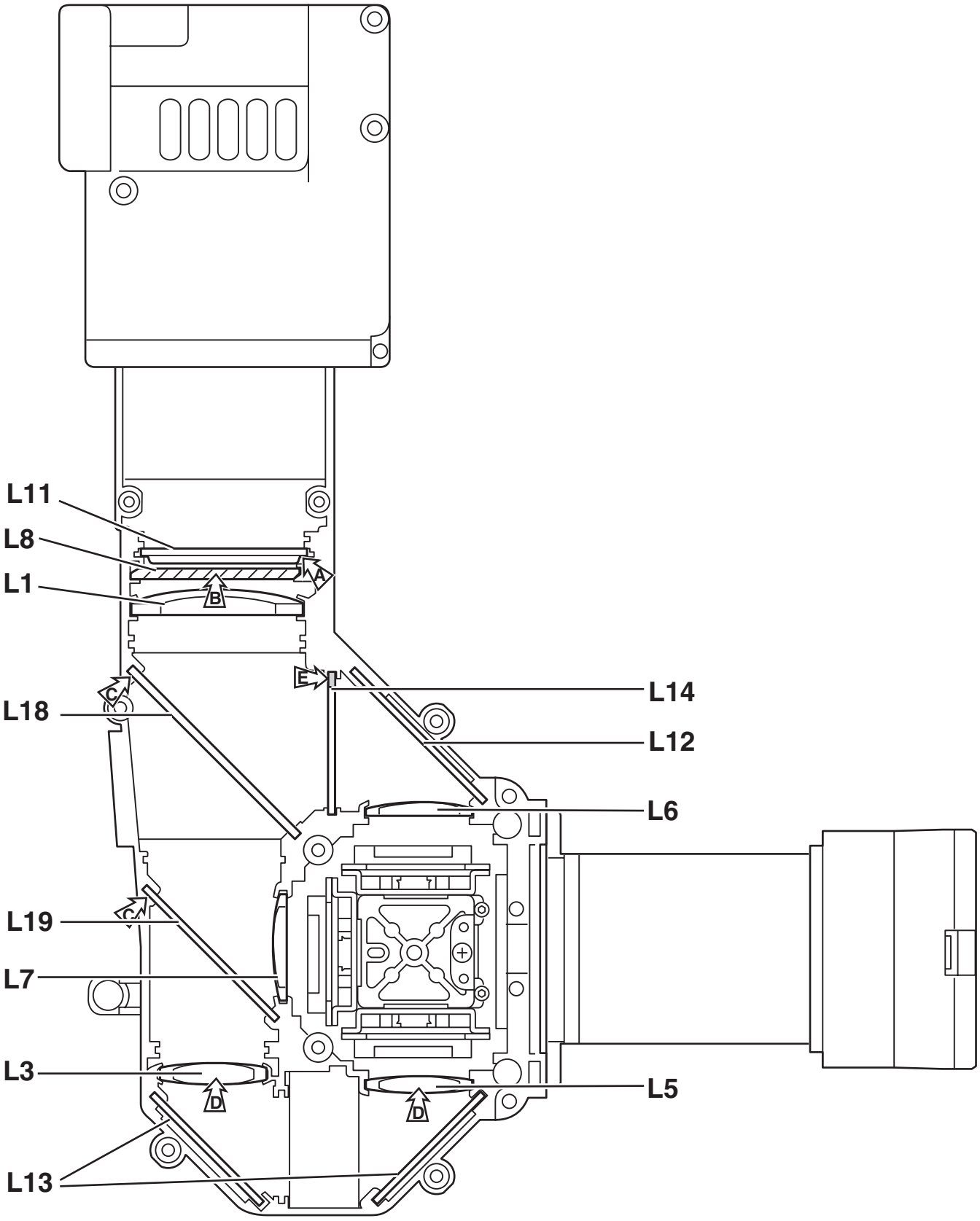





S3
S3
S3
L15
(Polarized-in-R)
L16
(Polarized-in-G)
L17
(Polarized-in-B)


L2
(Prism/LCD panel Ass'y)


S5
S5
S5
L9
(Projection)


L11
L8
L1
L18
L19
L7
L3
L13
L14
L12
L6
L5
A
B
C
D
E

Mechanical Parts List

Key No.	Part No.	Description
CABINET PARTS		
1	610 307 7765	ASSY,BUTTON-MA7A
	(Including Key No. 1-a to 1-f)	
1-a	610 307 7932	BUTTON-MA7A
1-b	610 307 8007	CAP BUTTON P-MA7A
1-c	610 293 8852	CAP BUTTON-S MW6A
1-d	610 307 8021	CAP BUTTON-S MA7A
1-e	610 307 8038	CAP BUTTON-M MA7A
1-f	610 307 8045	CAP BUTTON-A MA7A
2	610 308 8143	ASSY,STAND LEG-MA7A
3	610 308 8150	ARM,LENS-MT3P
4	610 311 3005	CABINET TOP SERVICE-MT3A
5	610 308 8280	CABINET FRONT-MT3A
6	610 311 3012	CABINET BTM SERVICE-MA7A
7	610 308 8396	CAP LENS-MT3P
8	610 311 3029	COVER,LP SERVICE-MA7A
9	610 308 9607	DEC RING-MT3A
10	610 307 8069	DEC INLAY LED-MA7A
11	610 308 8495	DEC INLAY-MT3A
12	610 302 5612	DEC SHEET-M4JA
13	610 307 8106	DEC AV SHEET-MA7A
14	610 307 6317	FILTER BASE F-MA7A
15	610 307 6324	FILTER BASE B-MA7A
16	610 307 8113	GRILLE -MA7A
17	610 294 0732	HOLDER SPEAKER-MW6A
18	610 307 8120	PANEL AV-MA7A
19	610 308 0116	SHIELD GR-MA7A
20	645 047 8031	BADGE,SANYO*26.2X5.7L26.0
21	610 289 1812	BADGE V MARK S-MK6A
CHASSIS PARTS		
M1	610 307 9127	HOLDER POWER PWB B-MA7A
M2	610 311 4842	MOUNTING DUCT TOP-MT3A
M3	610 307 9202	MOUNTING DUCT BTM-MA7A
M4	610 307 9219	MOUNTING DUCT TOP FR-MA7A
M5	610 307 9226	MOUNTING DUCT TOP BK-MA7A
M6	610 307 9233	MOUNTING DUCT LP-MA7A
M7	610 310 1569	SPACER OP-MA7A
M8	610 308 1595	SPACER SHEET*POWER T-MA7A
M9	610 310 3334	SPACER SHEET*T-MA7A
M10	610 306 9999	OPTICAL BASE BTM-MA7A
M11	610 307 0001	OPTICAL BASE TOP A-MA7A
M12	610 307 0018	OPTICAL BASE TOP B-MA7A
SCREWS		
S1	411 031 9304	SCR BIN 3X8
S2	412 066 8706	SPECIAL SCREW
S3	411 181 4303	BOLT HEX-SCT+SW+W 2.5X5
S4	411 030 5000	SCR BIN 2X3
S5	411 030 9008	SCR BIN 2.5X8

Key No.	Part No.	Description
OPTICAL PARTS		
L1	645 061 5474	LENS,CONDENSER(OUT)
OR	645 061 9663	LENS,CONDENSER(OUT)
L2		
	(For MW3-XU5000)	
	610 311 5948	ASSY,LCD PNL/PSM-MW3A
	(For MT3-XU5500)	
	610 311 3043	ASSY,LCD PNL/PSM-MT3A
L3	645 061 5504	LENS,RELAY(IN)
OR	645 061 9670	LENS,RELAY(IN)
L4	645 061 5511	LENS,RELAY(OUT)
OR	645 061 9687	LENS,RELAY(OUT)
L5	645 061 5528	LENS,CONDENSER(R)
OR	645 061 9694	LENS,CONDENSER(R)
L6	645 061 5498	LENS,CONDENSER(B)
OR	645 062 5213	LENS,CONDENSER(B)
L7	645 041 5036	LENS,CONDENSER
OR	645 062 5220	LENS,CONDENSER
L8	645 061 5634	ASSY,PRISM(PBS)
OR	645 062 5206	ASSY,PRISM(PBS)
L9	645 061 6518	LENS,PROJECTION
L10	645 061 5450	LENS,INTEGRATOR(IN)
L11	645 061 5467	LENS,INTEGRATOR(OUT)
L12	645 061 5559	MIRROR(B)
L13	645 061 5566	MIRROR(R)
L14	645 061 5580	OPTICAL FILTER(UV CUT)
L15	645 064 8724	POLARIZED GLASS(IN/R)S
L16	645 064 8731	POLARIZED GLASS(IN/G)S
L17	645 064 8748	POLARIZED GLASS(IN/B)S
L18	645 061 5603	DICHROIC MIRROR (B)
L19	645 061 5610	DAICHROIC MIRROR(G)

(MT3A) Sep.. 2003 BB 400 Printed in Japan

SANYO Electric Co., Ltd.

■ Diagrams & Drawings

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PLC-XU50	MW3-XU5000
PLC-XU55	MT3-XU5500

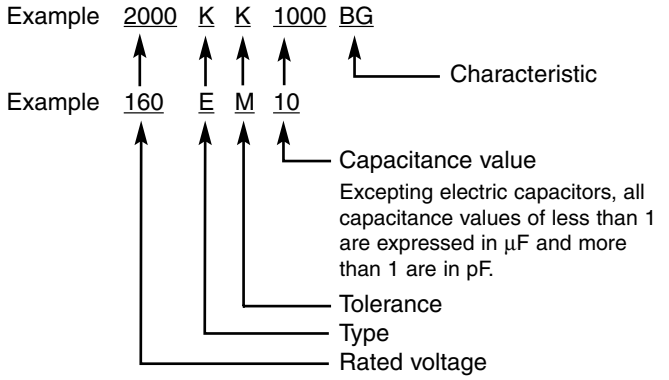
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. MW3-XU5000 and MT3-XU5500, models PLC-XU50 and PLC-XU55.
File with the service manual No. SM5110516-00.

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

■ Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

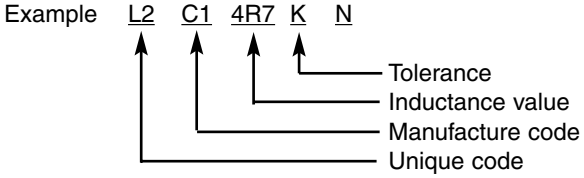
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

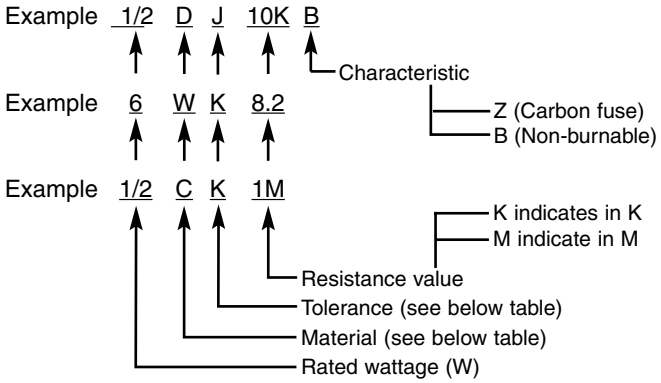
Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	± 0
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

Transistor

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

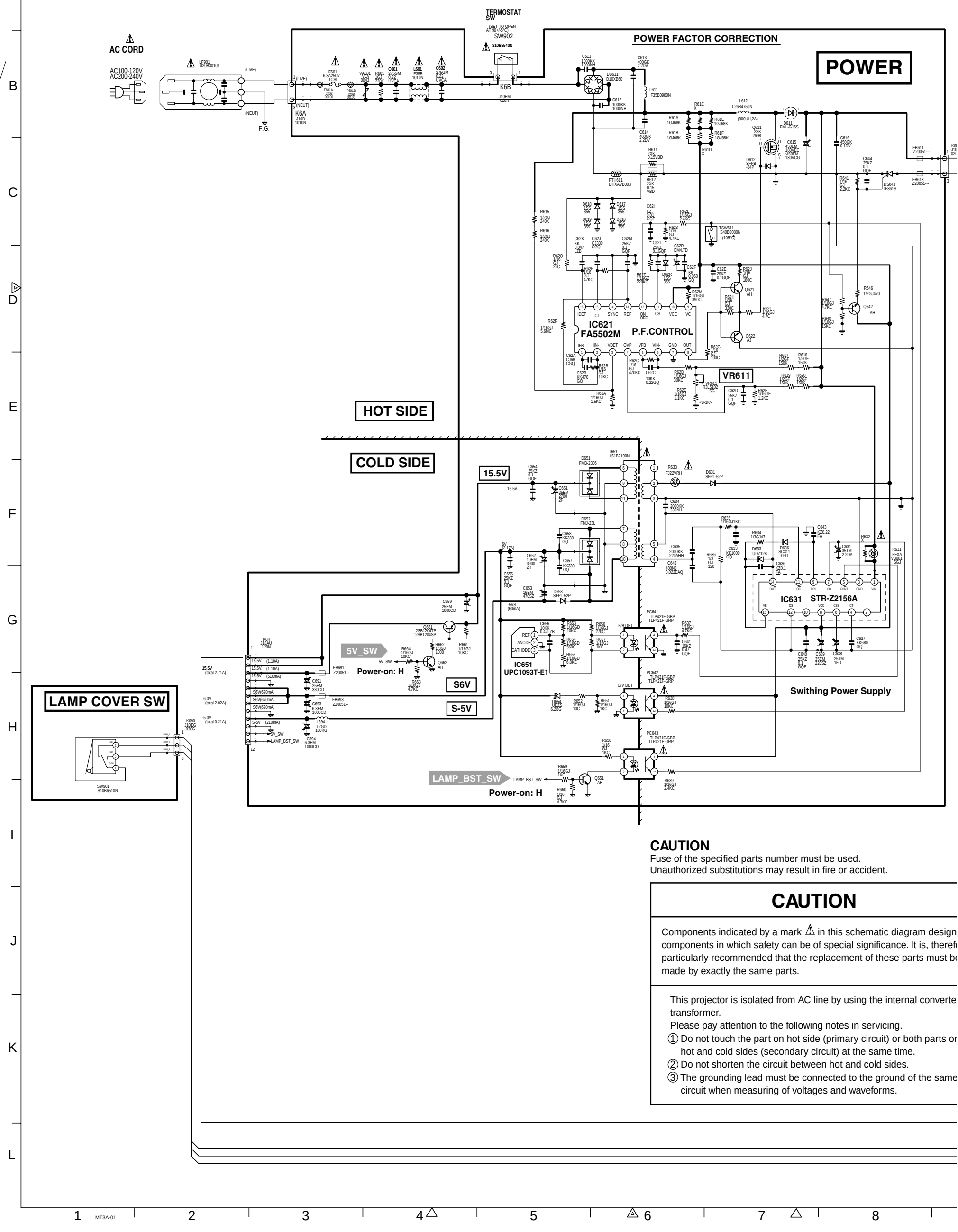
(2) PNP type

Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

Mark	Type number				
--	2SA1179/N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

■ Schematic Diagrams



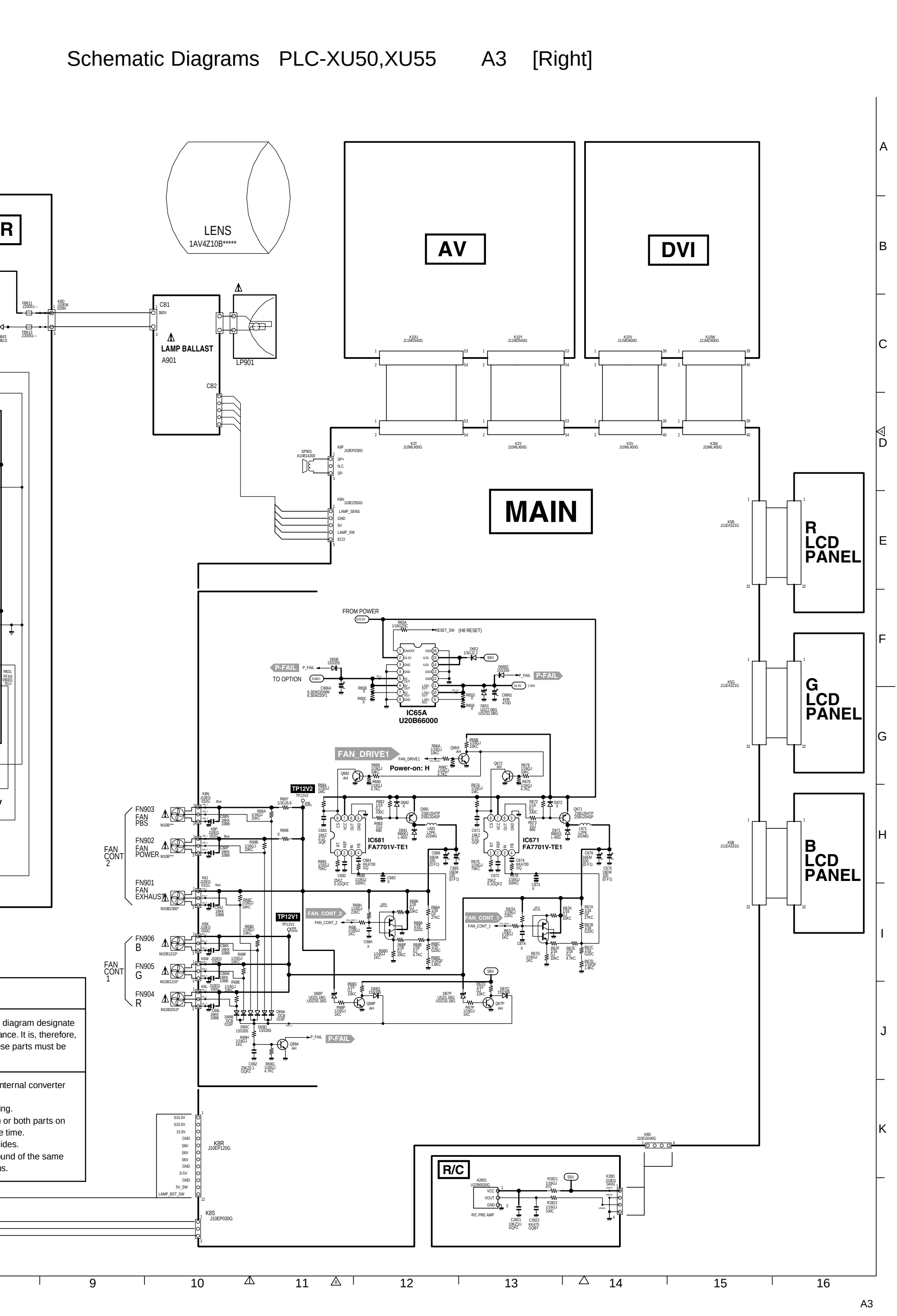
CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION

Components indicated by a mark ⚠ in this schematic diagram design components in which safety can be of special significance. It is, therefo particularly recommended that the replacement of these parts must be made by exactly the same parts.

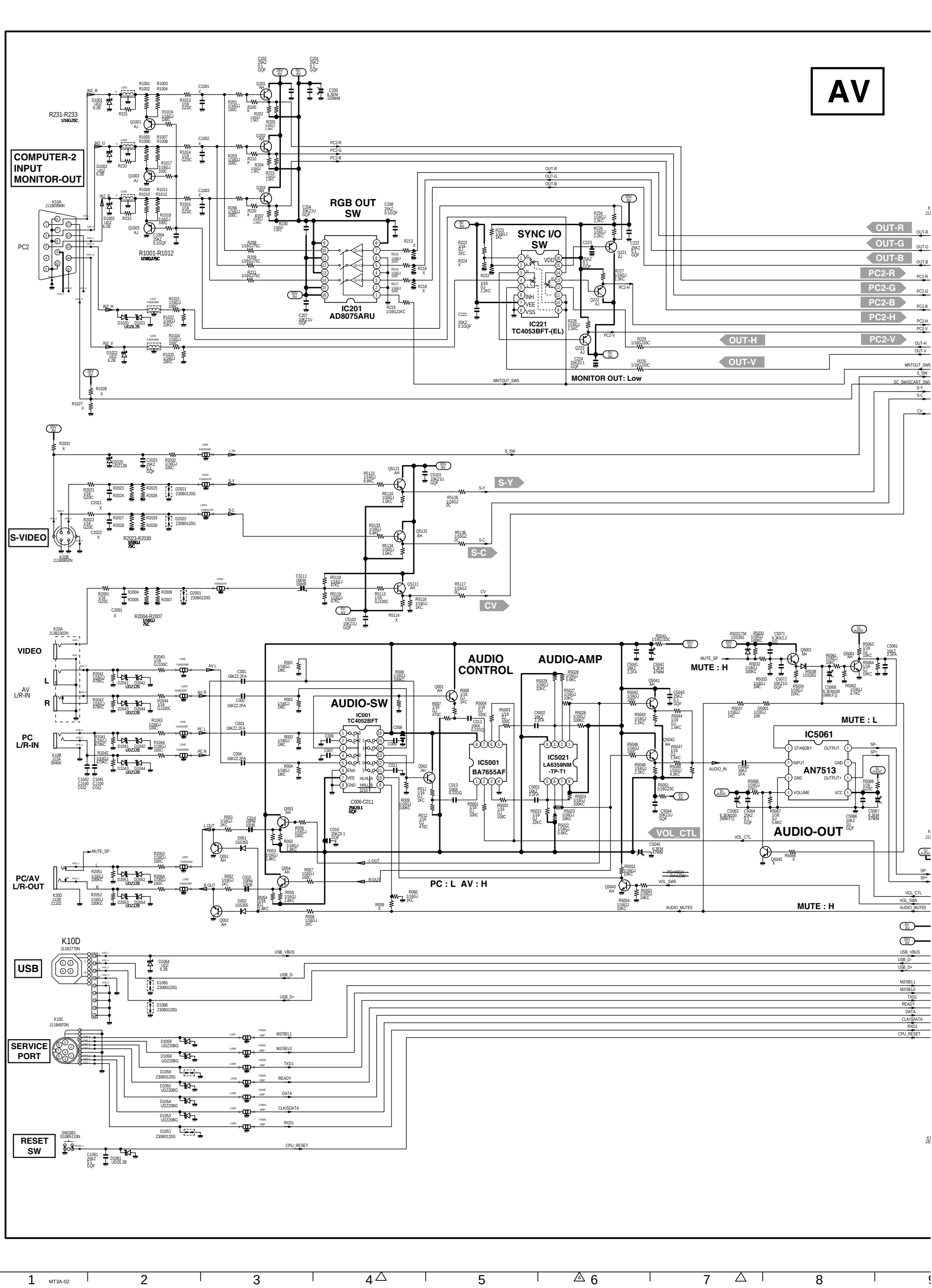
This projector is isolated from AC line by using the internal converte transformer.
Please pay attention to the following notes in servicing.
① Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
② Do not shorten the circuit between hot and cold sides.
③ The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

SCH_MT3A

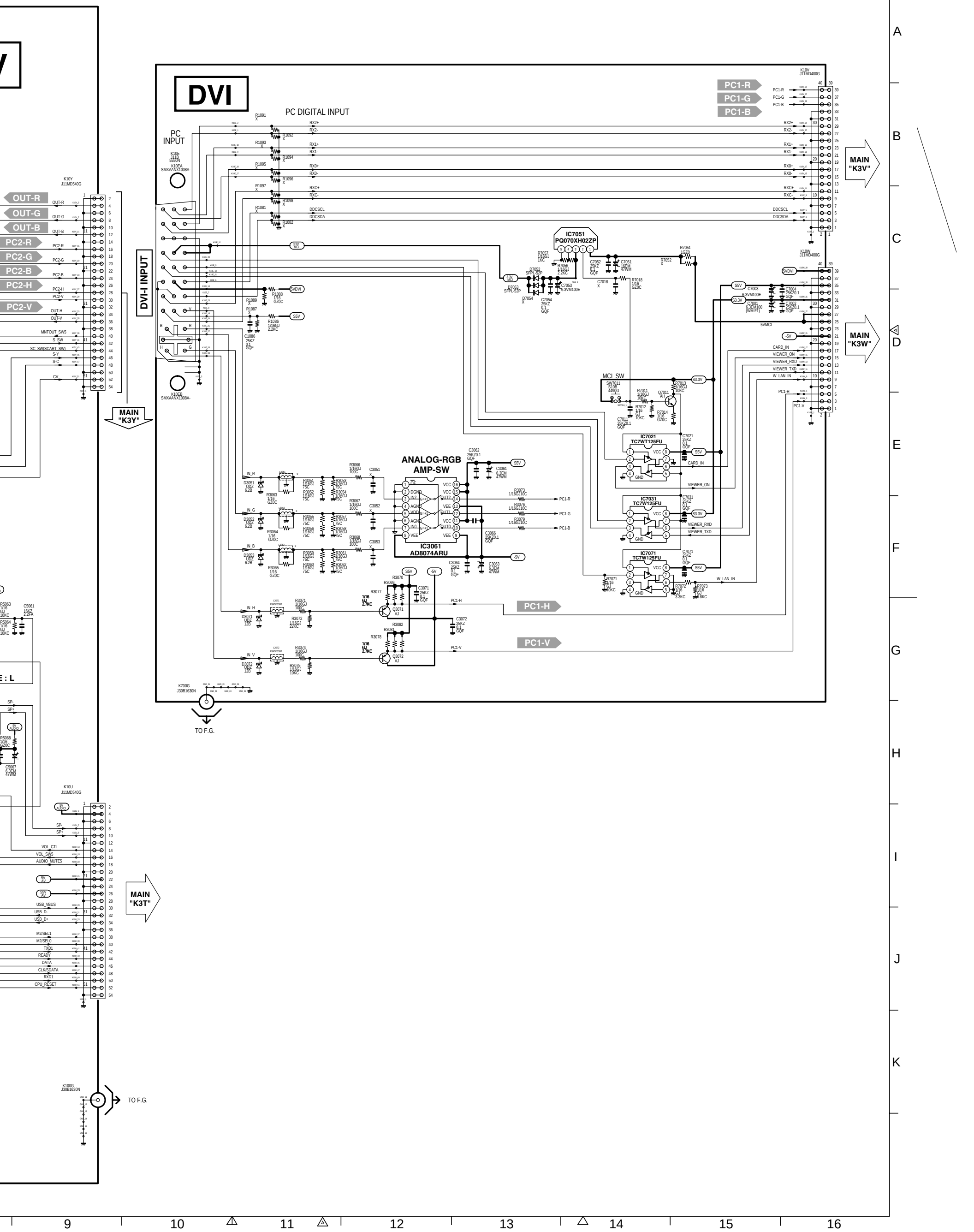

LENS
1AV4Z10B*****
AV
DVI
MAIN
R
LCD
PANEL
G
LCD
PANEL
B
LCD
PANEL
LAMP BALLAST
A901
LP901
CB1
CB2
IC65A
U20B66000
IC681
FA7701V-TE1
IC671
FA7701V-TE1
FAN_DRIVE1
Power-on: H
FAN_CONT_2
FAN_CONT_1
P-FAIL
TO OPTION
FROM POWER
RESET_SW (H8 RESET)
FN903 FAN PBS
FN902 FAN POWER
FN901 FAN EXHAUST
FN906 B
FN905 G
FN904 R
FAN CONT 2
FAN CONT 1
R/C
R/C PRE AMP
K8R J10EP120G
K8S J10EP030G
K8D J10EG040G

-2-

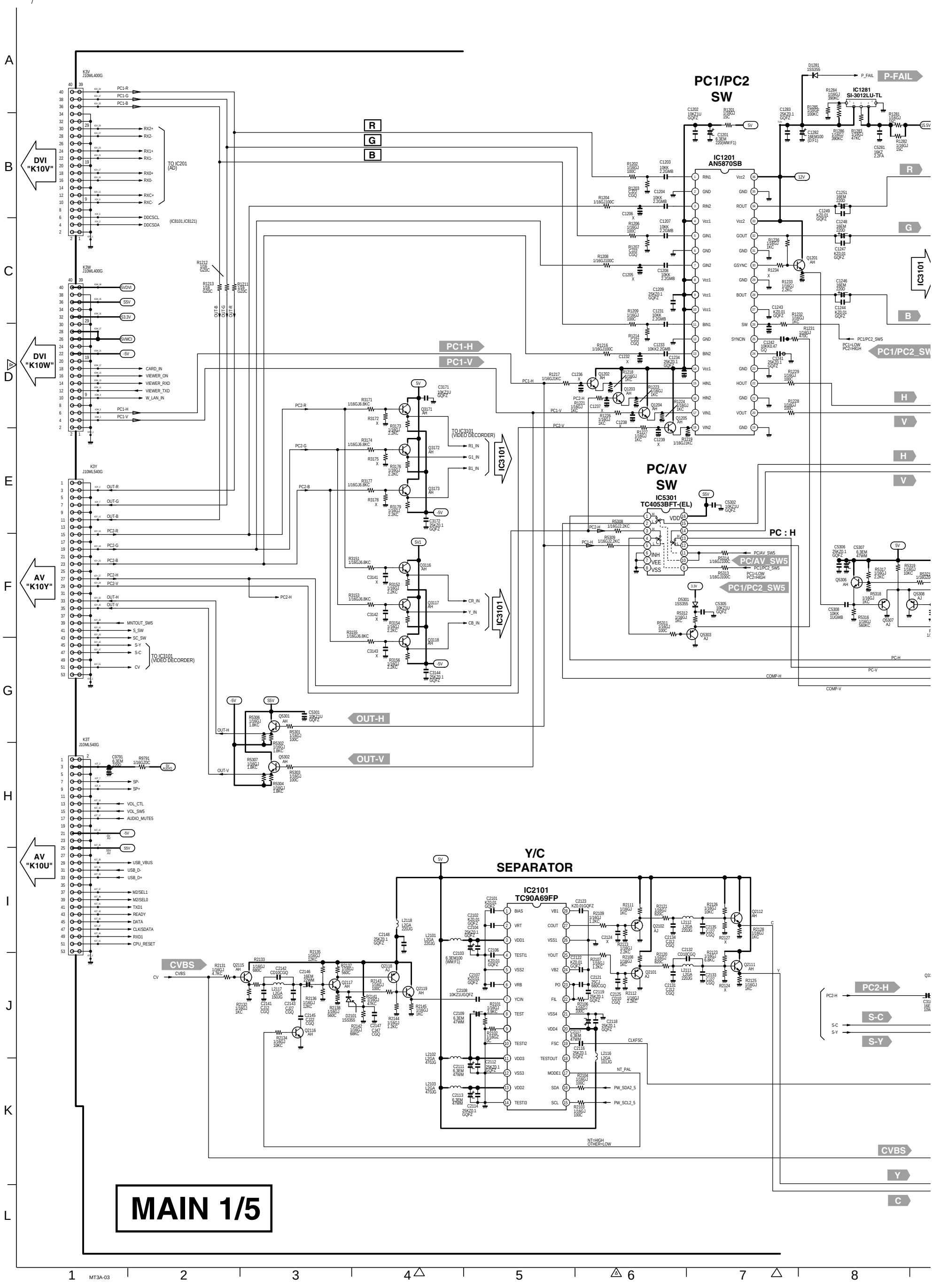
Schematic Diagrams PLC-XU50,XU55 A4 [Left]



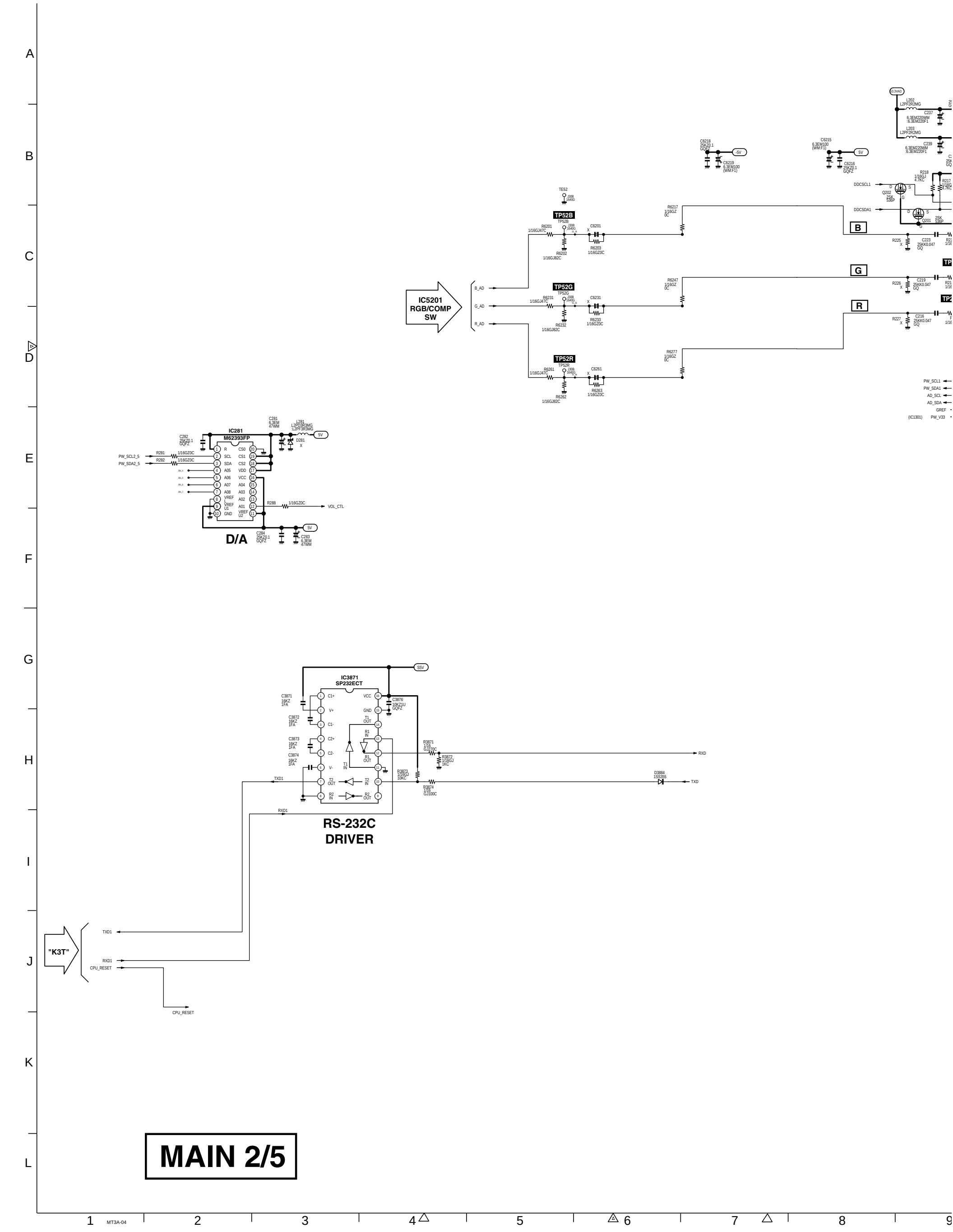
Schematic Diagrams PLC-XU50,XU55 A4 [Right]



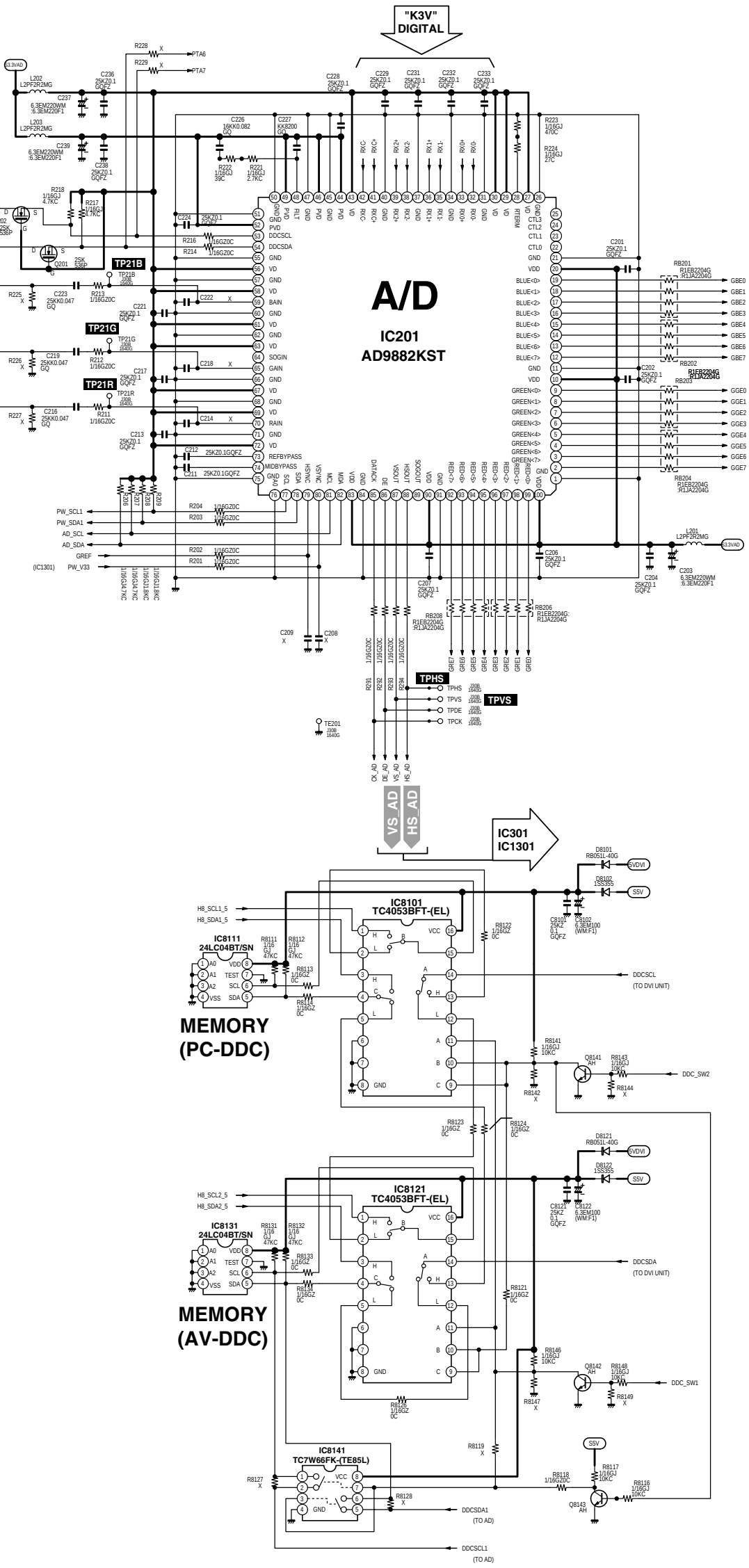
Schematic Diagrams PLC-XU50,XU55 A5 [Left]

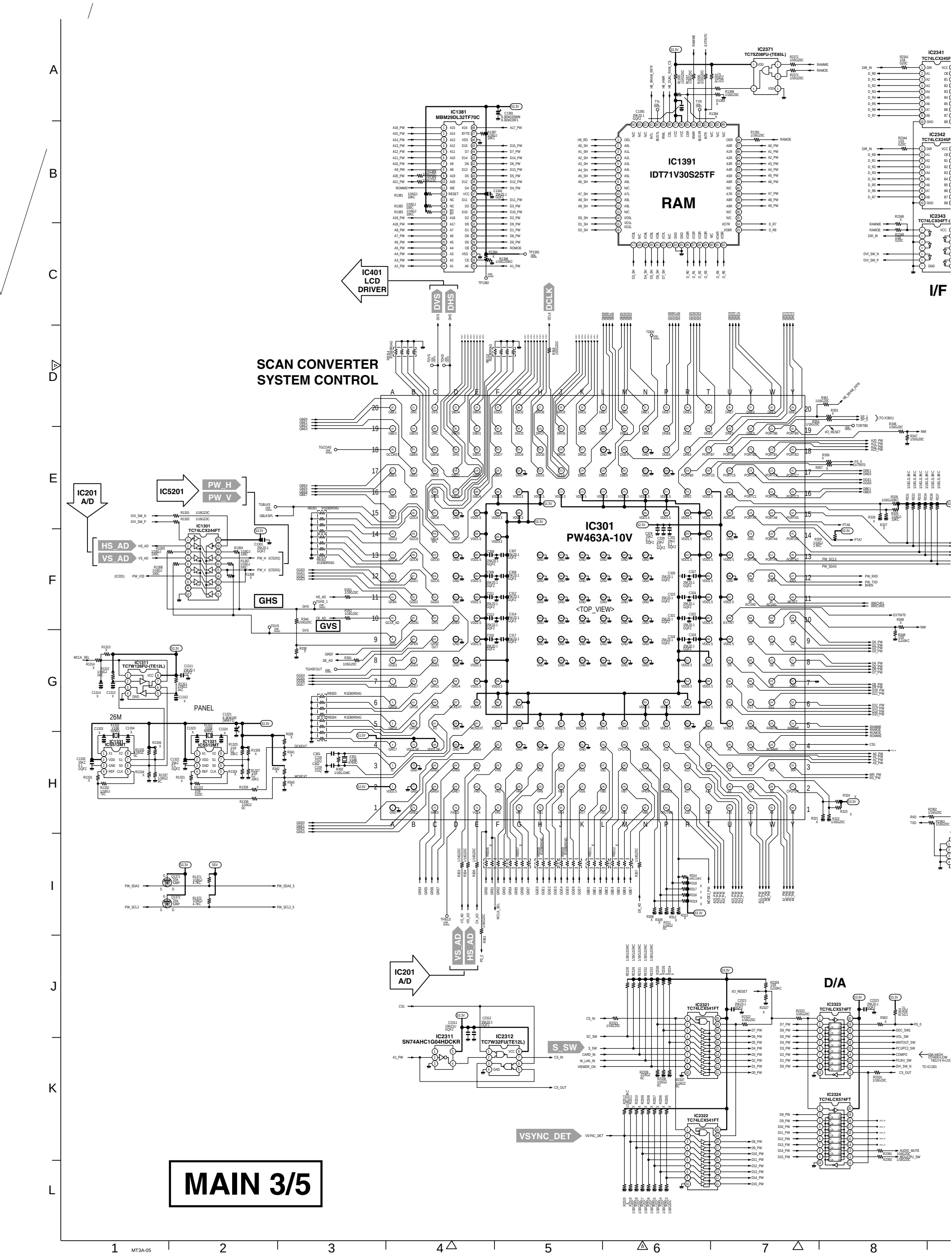


Schematic Diagrams PLC-XU50,XU55 A5 [Right]

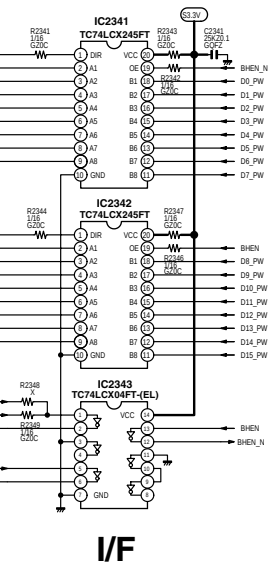

IC5201
RGB/COMP
SW
B_AD
G_AD
R_AD
TP52B
TP52G
TP52R
B
G
R
IC281
M62393FP
D/A
PW_SCL2_5
PW_SDA2_5
VOL_CTL
IC3871
SP232ECT
RS-232C
DRIVER
RXD
TXD
TXD1
RXD1
CPU_RESET
"K3T"
PW_SCL1
PW_SDA1
AD_SCL
AD_SDA
GREF
DDCSCL1
DDCSDA1
MAIN 2/5

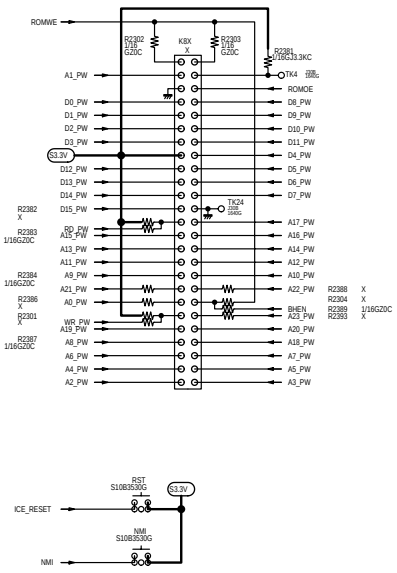
Schematic Diagrams PLC-XU50,XU55 A6 [Right]

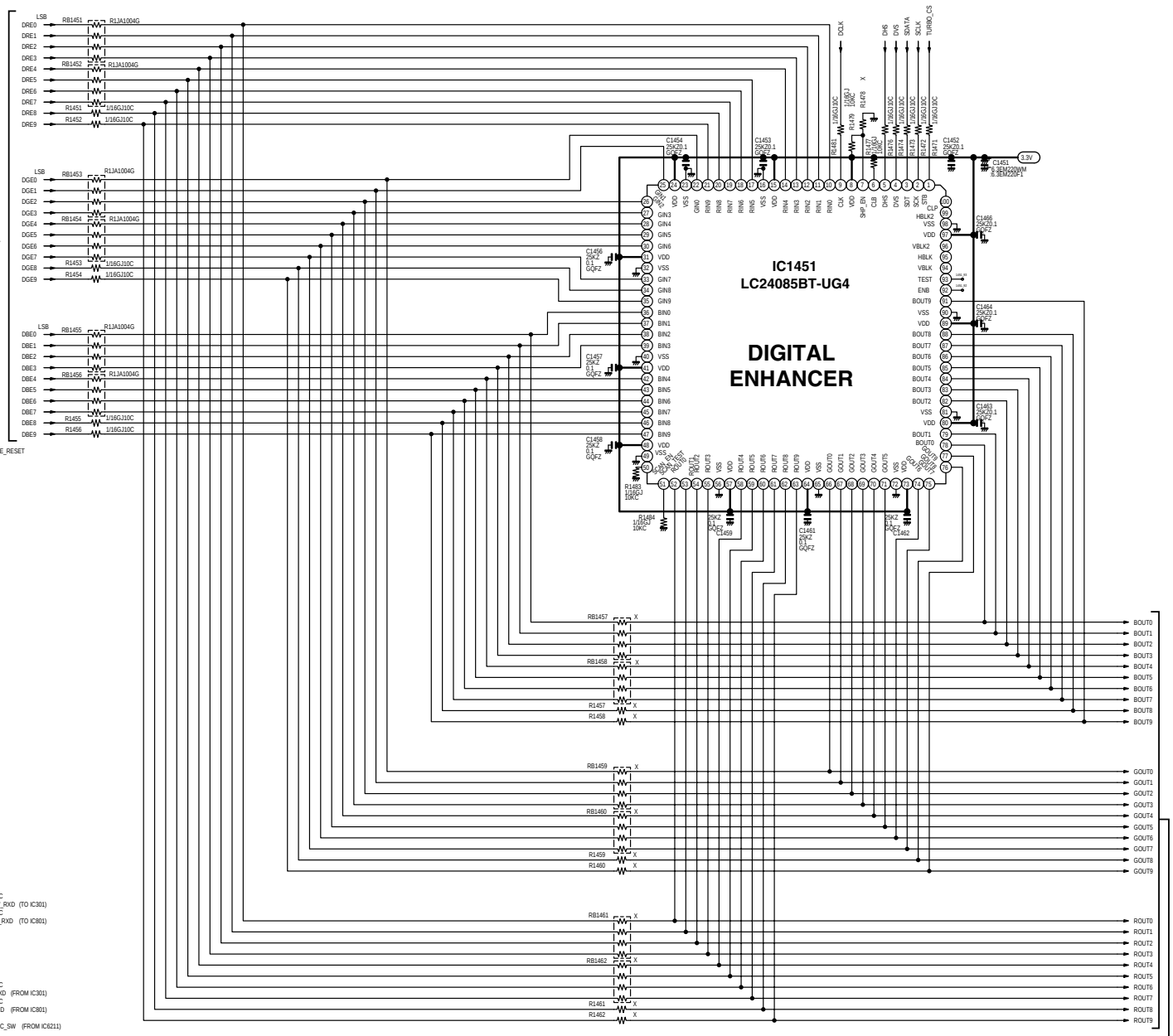



IC1381
MBM29DL32TF70C
IC1391
IDT71V30S25TF
RAM
IC2371
TC7SZ08FU-(TE85L)
IC2341
TC74LCX245F
IC2342
TC74LCX245F
IC2343
TC74LCX04FT-(
I/F
IC401
LCD
DRIVER
DVS
DHS
DCLK
SCAN CONVERTER
SYSTEM CONTROL
IC201
A/D
IC5201
PW_H
PW_V
HS_AD
VS_AD
GHS
GVS
IC1301
TC74LCX244FT
IC1311
TC7W126FU-(TE12L)
IC1321
ICS512MT
PANEL
26M
IC301
PW463A-10V
<TOP_VIEW>
IC2311
SN74AHC1G04HDCKR
IC2312
TC7W32FU(TE12L)
S_SW
VSYNC_DET
IC2321
TC74LCX541FT
IC2322
TC74LCX541FT
IC2323
TC74LCX574FT
IC2324
TC74LCX574FT
D/A
MAIN 3/5

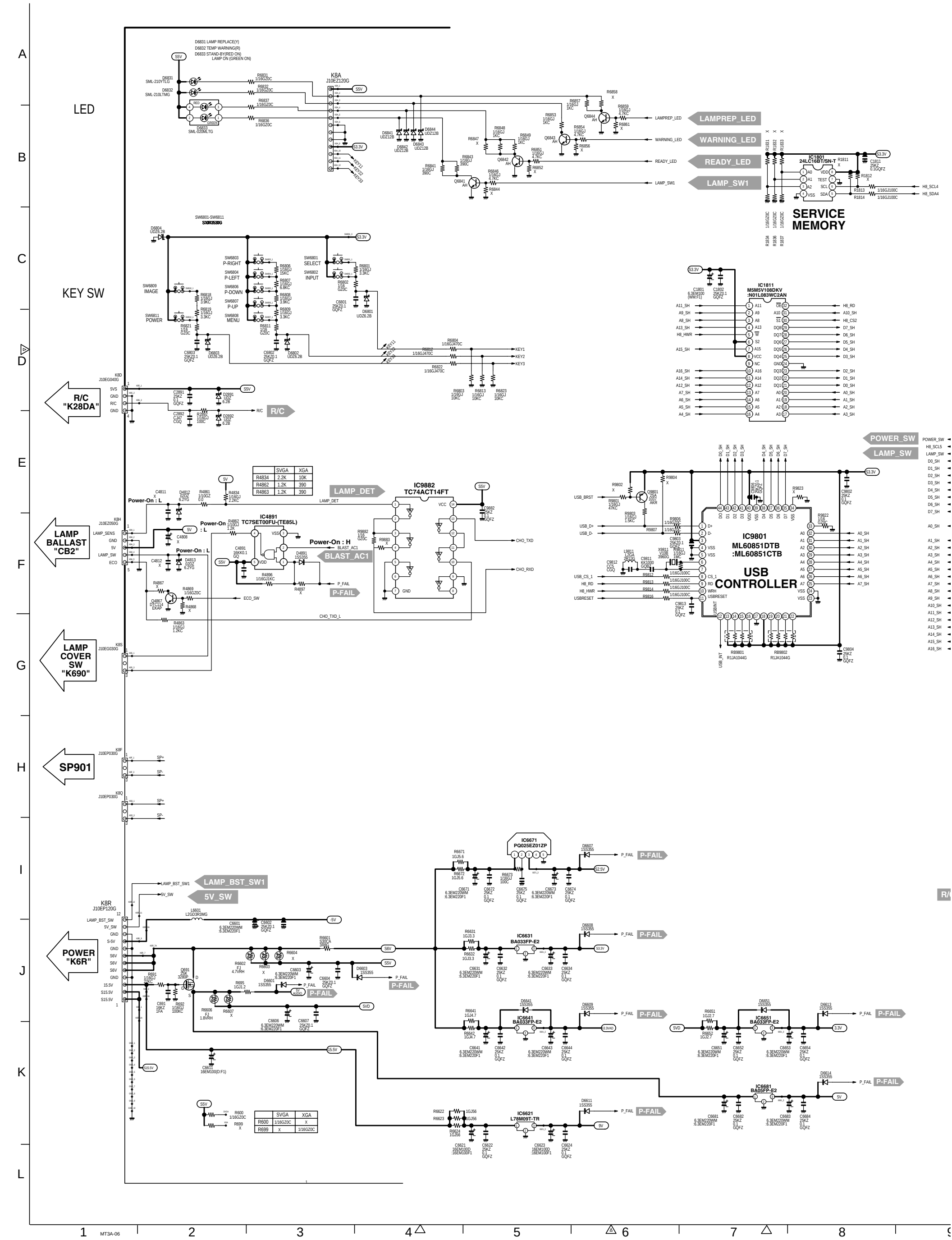
Schematic Diagrams PLC-XU50,XU55 A7 [Right]



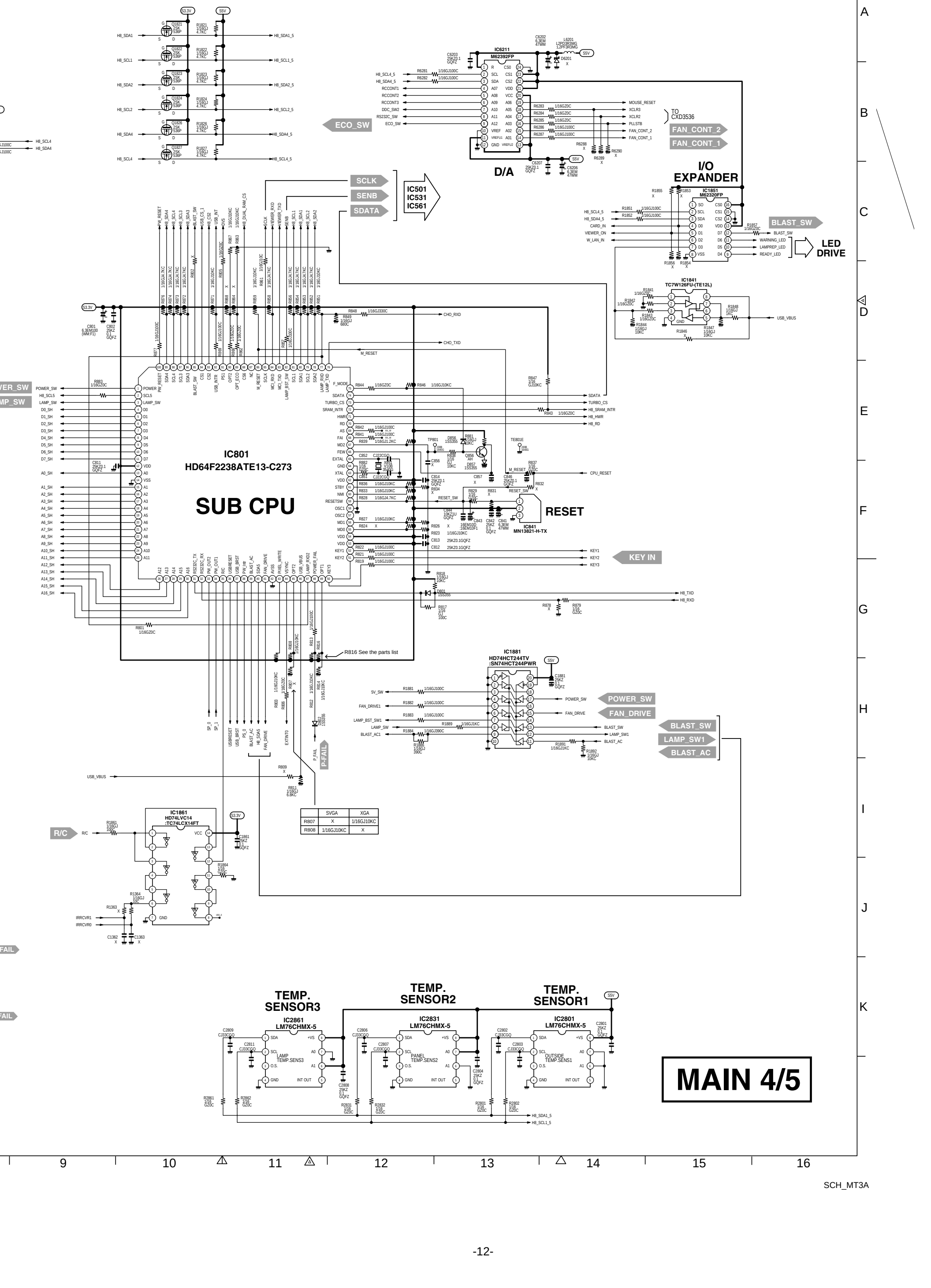




Schematic Diagrams PLC-XU50,XU55 A8 [Left]

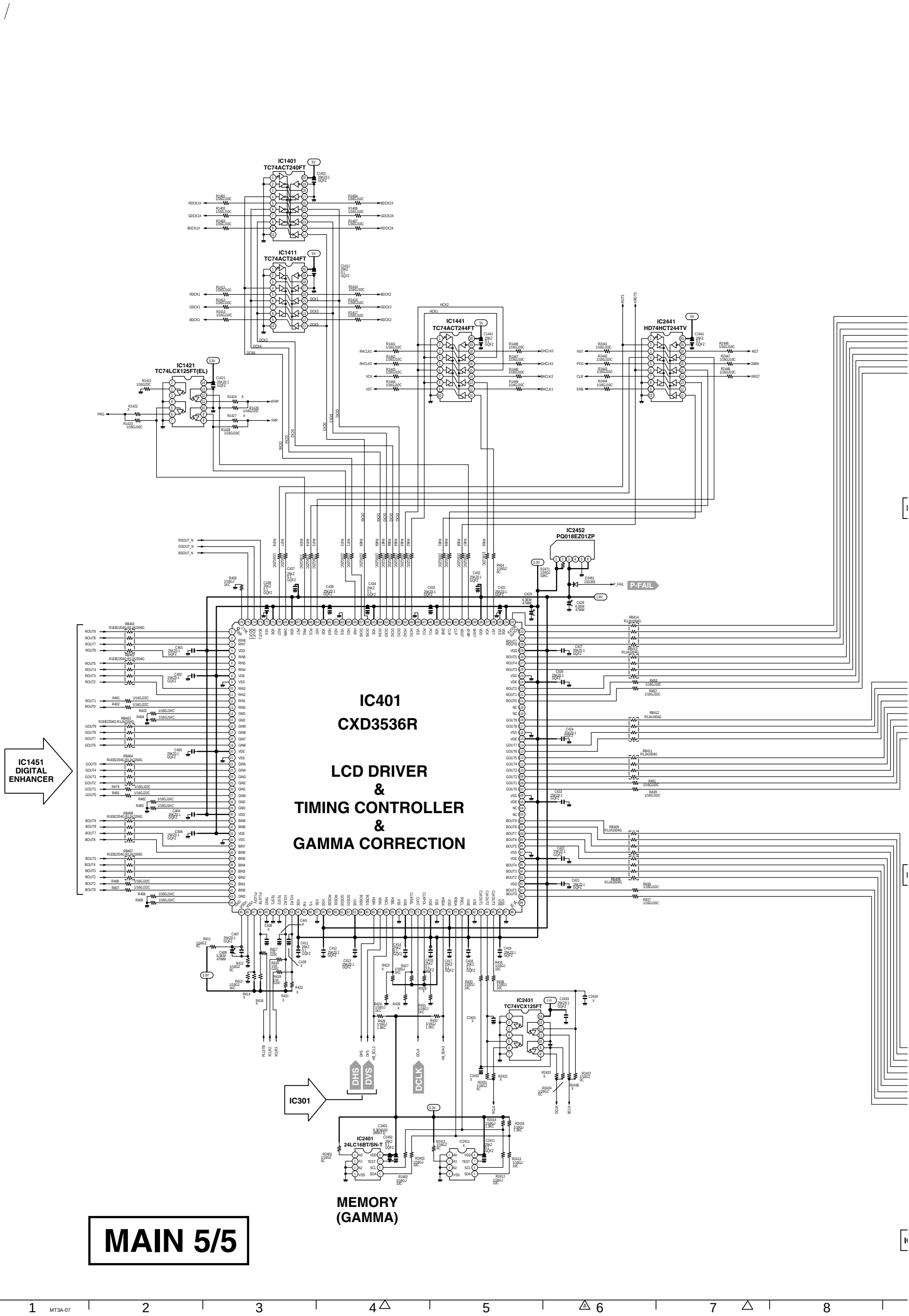


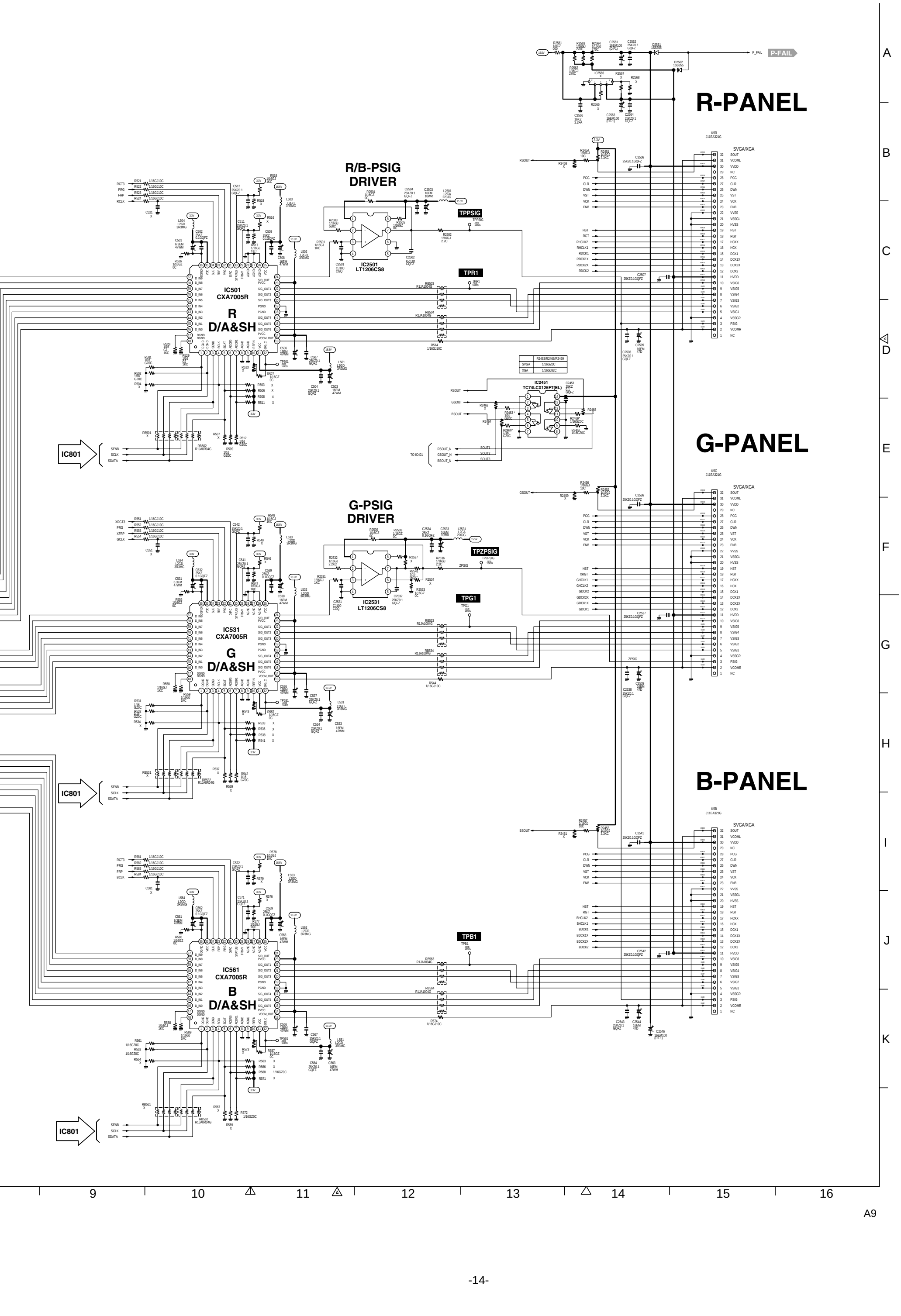
Schematic Diagrams PLC-XU50,XU55 A8 [Right]



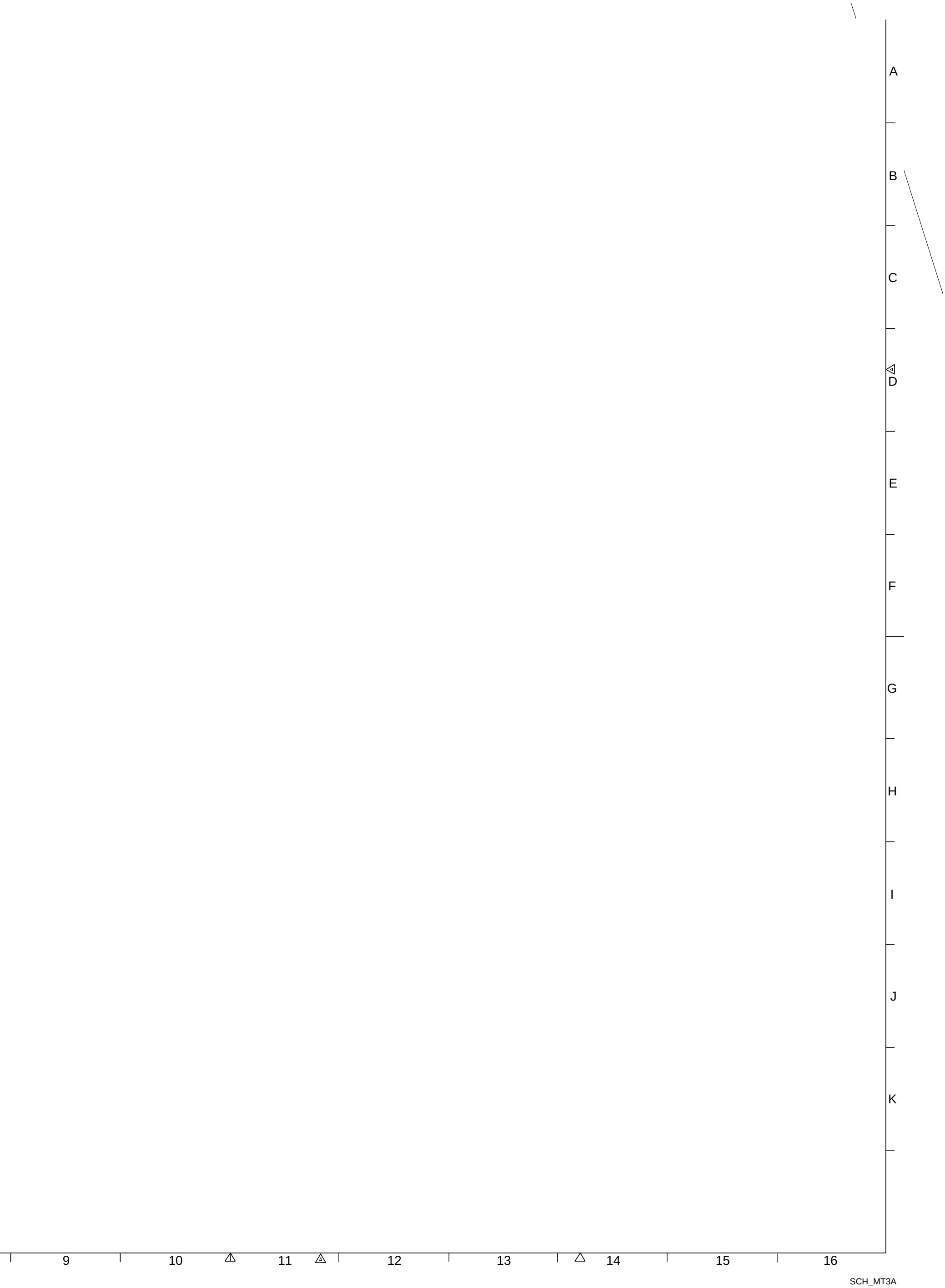
	SVGA	XGA
R807	X	1/16GJ10KC
R808	1/16GJ10KC	X

SCH_MT3A


IC1401
TC74ACT240FT
IC1411
TC74ACT244FT
IC1421
TC74LCX125FT(EL)
IC1441
TC74ACT244FT
IC2441
HD74HCT244TV
IC2452
PQ018EZ01ZP
IC401
CXD3536R
LCD DRIVER
&
TIMING CONTROLLER
&
GAMMA CORRECTION
IC1451
DIGITAL
ENHANCER
IC301
DHS
DVS
DCLK
IC2431
TC74VCX125FT
IC2401
24LC16BT/SN-T
MEMORY
(GAMMA)
P-FAIL
MAIN 5/5
MT3A-07
SCH_MT3A


R-PANEL
G-PANEL
B-PANEL
R/B-PSIG DRIVER
G-PSIG DRIVER
IC2501 LT1206CS8
IC2531 LT1206CS8
IC2451 TC74LCX125FT(EL)
IC501 CXA7005R R D/A&SH
IC531 CXA7005R G D/A&SH
IC561 CXA7005R B D/A&SH
IC801
TPPSIG
TPZPSIG
TPG1
TPB1
P-FAIL
SVGA/XGA
SOUT
VCOML
VVDD
NC
PCG
CLR
DWN
VST
VCK
ENB
VVSS
VSSGL
HVSS
HST
RGT
HCKX
HCK
DCK1
DCK1X
DCK2X
DCK2
HVDD
VSIG6
VSIG5
VSIG4
VSIG3
VSIG2
VSIG1
VSSGR
PSIG
VCOMR
NC
SENB
SCLK
SDATA

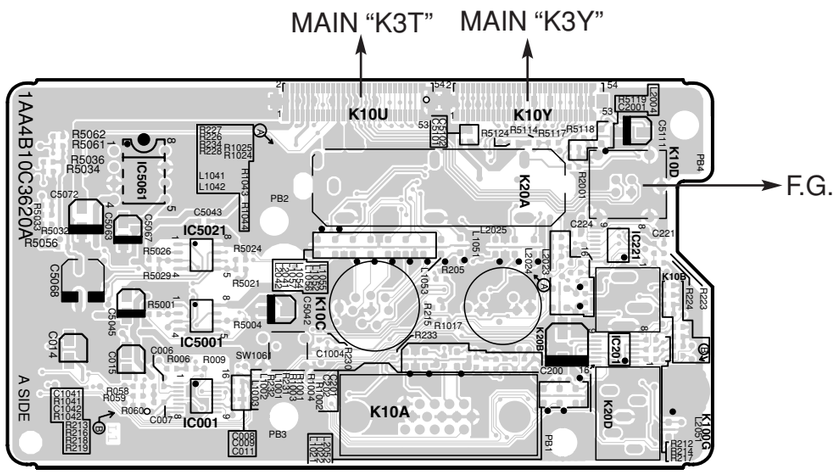
A10


A
B
C
D
E
F
G
H
I
J
K
9
10
11
12
13
14
15
16
SCH_MT3A

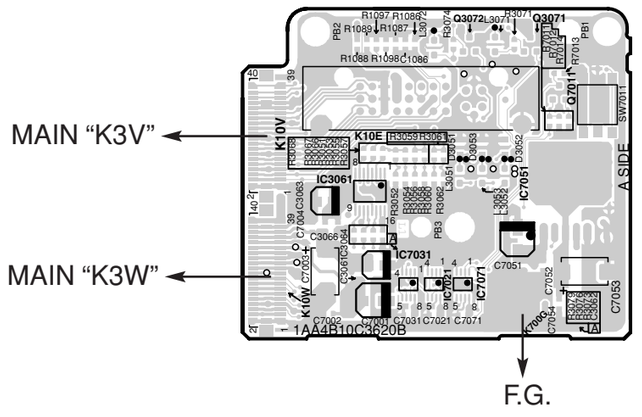
■ Printed Wiring Board Diagrams

> **⚠ CAUTION**
>
> This projector is isolated from AC line by using the internal converter transformer.
> Please pay attention to the following notes in servicing
> 1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
> 2. Do not shorten the circuit between hot and cold sides.
> 3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

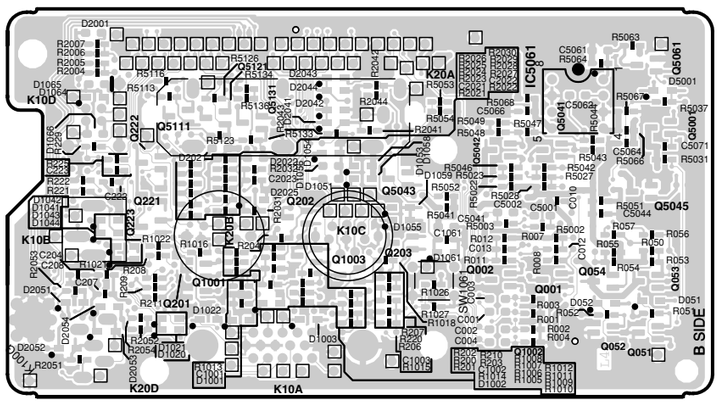
AV (SIDE:A)



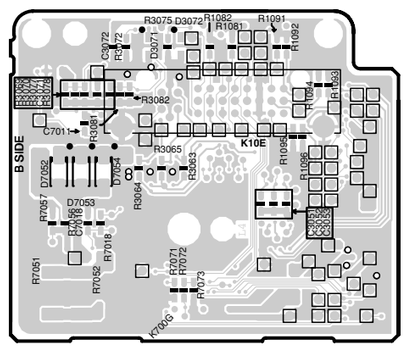
DVI (SIDE:A)



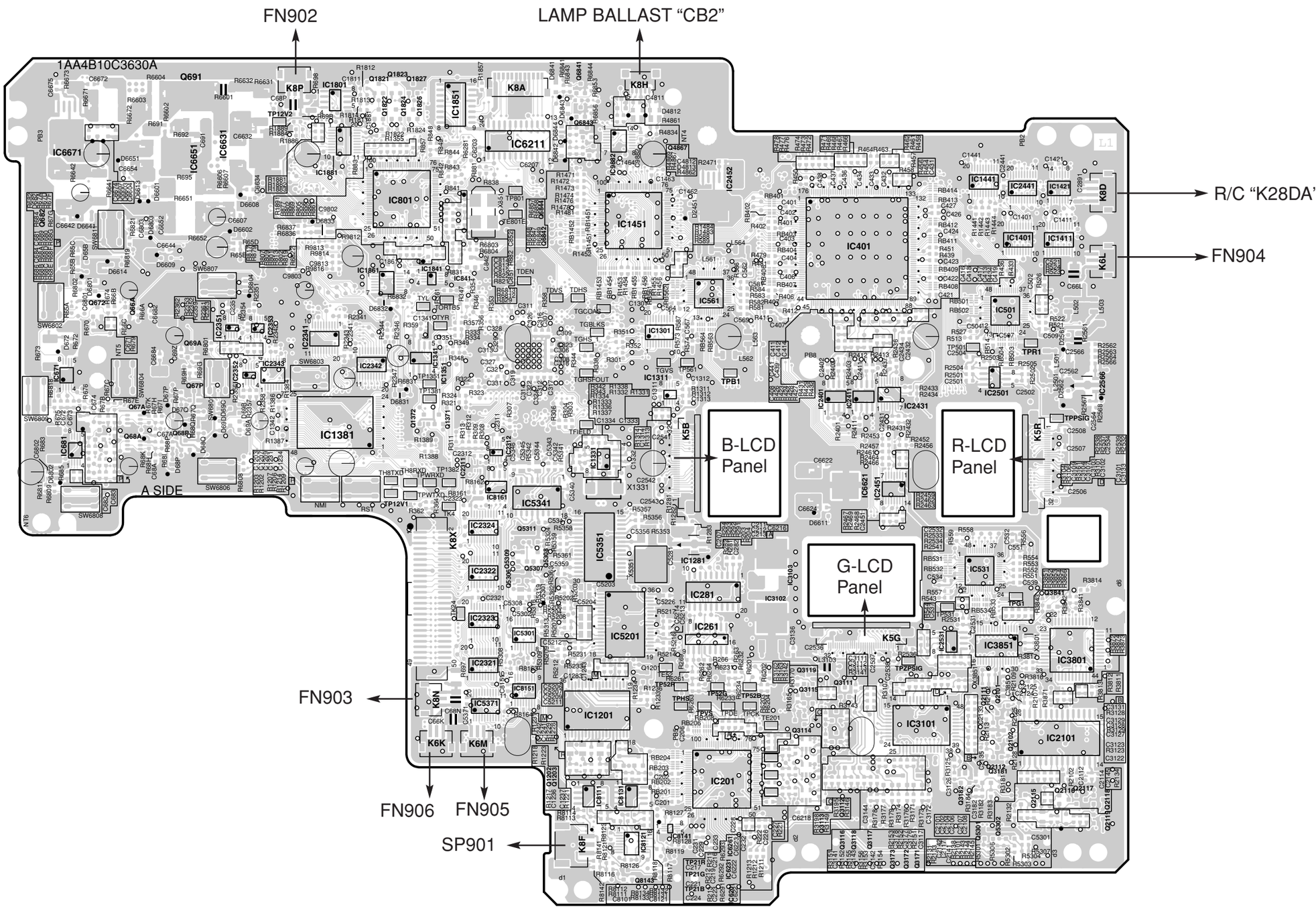
AV (SIDE:B)



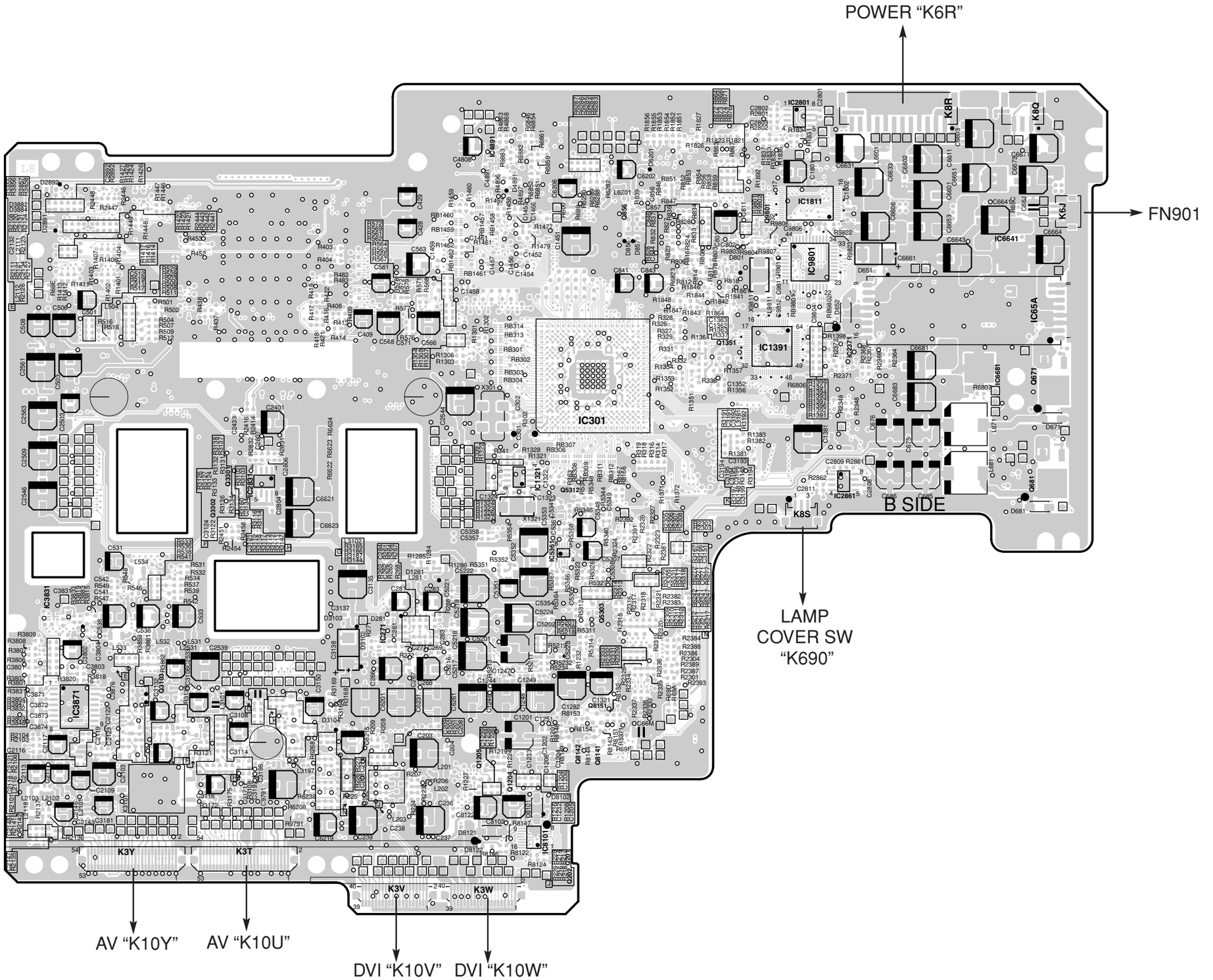
DVI (SIDE:B)



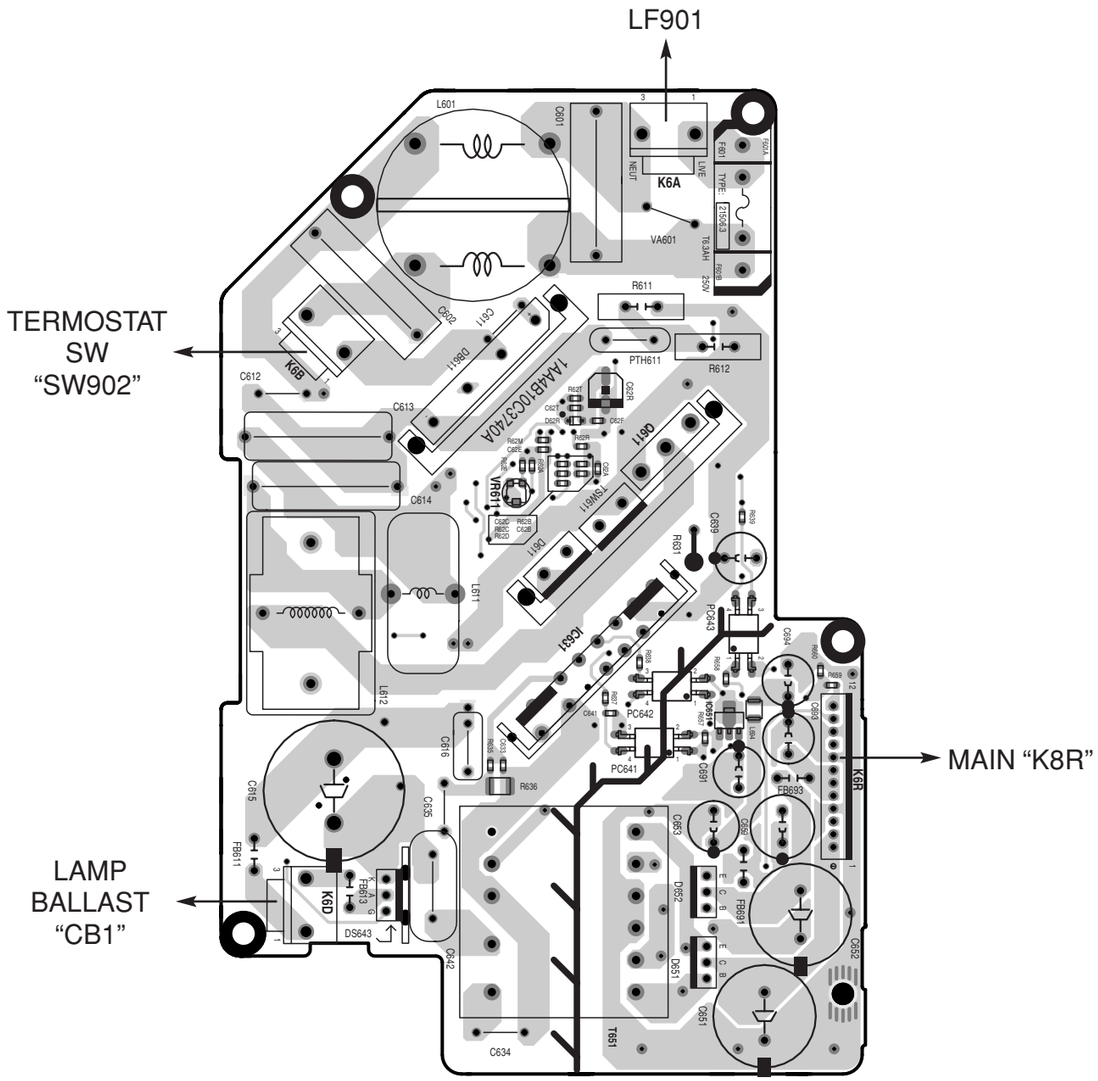
MAIN (SIDE:A)


FN902
LAMP BALLAST “CB2”
1AA4B10C3630A
R/C “K28DA”
FN904
FN903
FN906
FN905
SP901
B-LCD Panel
R-LCD Panel
G-LCD Panel
A SIDE
IC1381
IC801
IC1451
IC401
IC1801
IC1851
IC6211
IC6671
IC6651
IC6631
IC1441
IC2441
IC1421
IC1401
IC1411
IC501
IC561
IC1301
IC1311
IC2431
IC2501
IC5341
IC5351
IC5201
IC1201
IC201
IC281
IC261
IC3101
IC3851
IC3801
IC2101
IC531
K8D
K6L
K5B
K5R
K5G
K8X
K8N
K6K
K6M
K8F

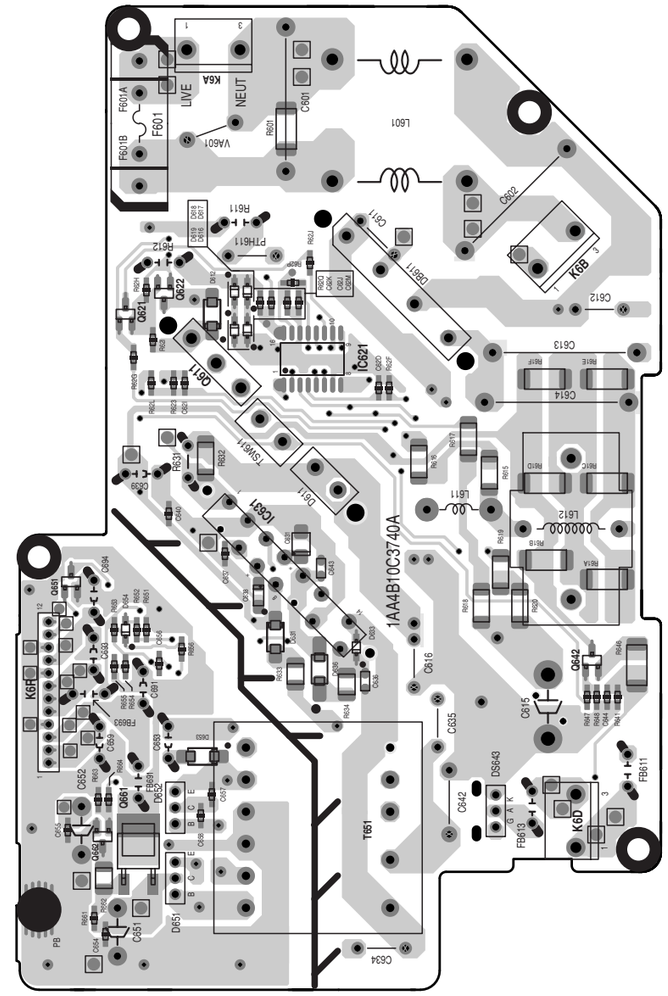
MAIN (SIDE:B)


POWER “K6R”
FN901
LAMP
COVER SW
“K690”
B SIDE
AV “K10Y”
AV “K10U”
DVI “K10V”
DVI “K10W”
IC301
IC1811
IC9801
IC1391
IC6641
IC65A
IC3871
IC3831
IC271
IC2801
IC2861
IC5361
IC3101
IC6681
K8R
K8Q
K6J
K8S
K3Y
K3T
K3V
K3W
Q1351
Q5303
Q3302
Q3831
Q5312
Q6681
Q671
Q681

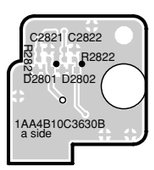
POWER (SIDE:A)



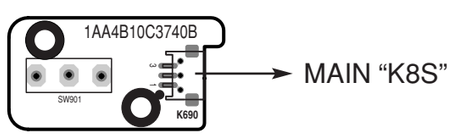
POWER (SIDE:B)



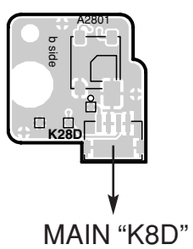
R/C (SIDE:A)



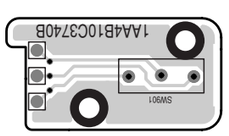
LAMP COVER SW (SIDE:A)



R/C (SIDE:B)

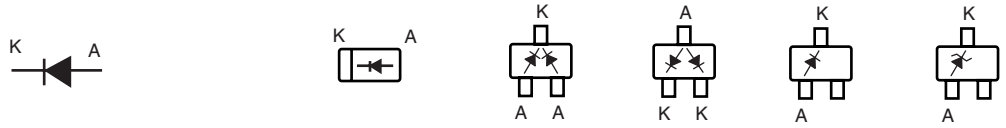


LAMP COVER SW (SIDE:B)



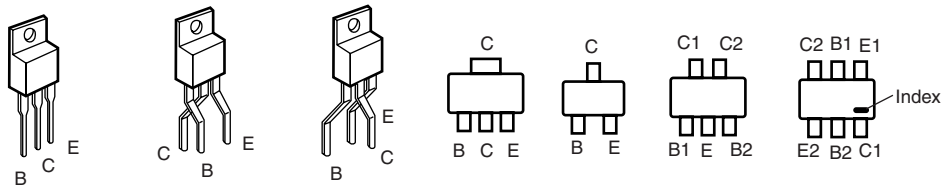
■ Pin description of diode, transistor and IC

● Diode



K: Cathode
A: Anode

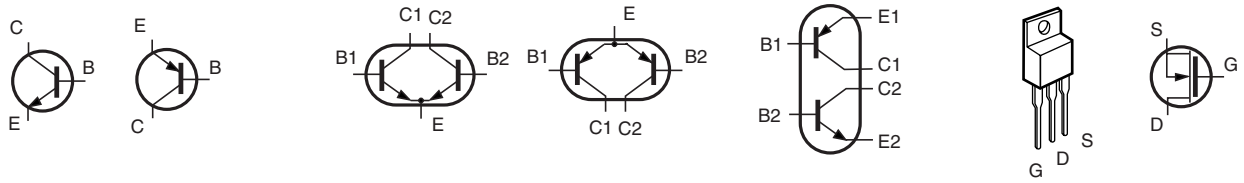
● Transistor/FET



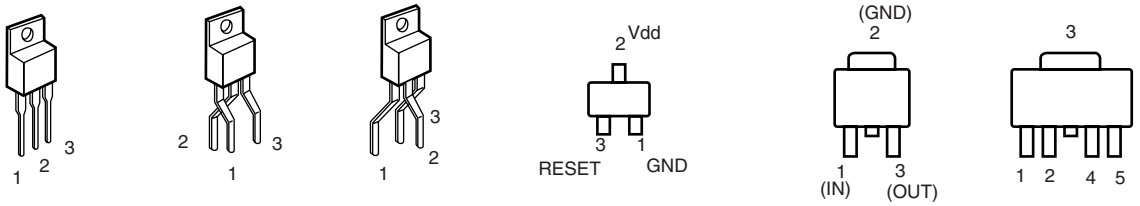
C: Collector
B: Base
E: Emitter

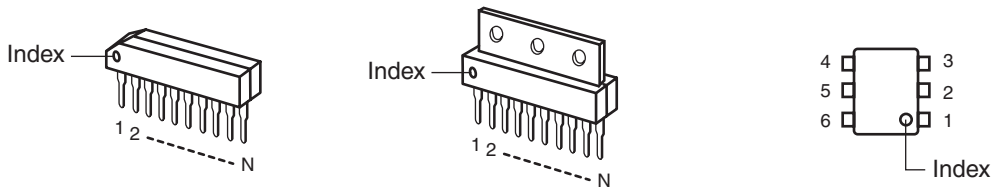
D: Drain
G: Gate
S: Source

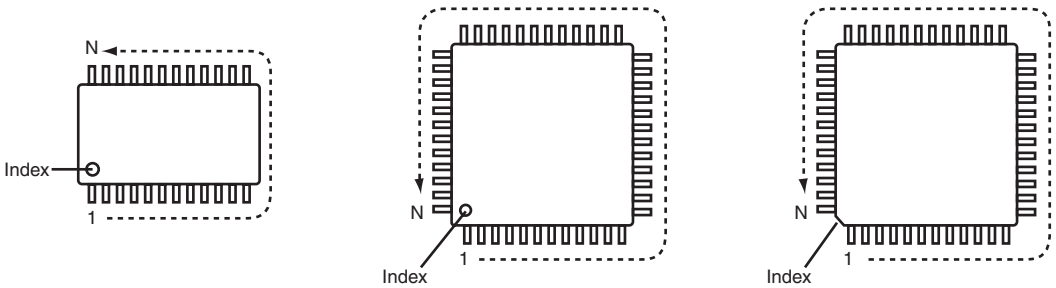
FET

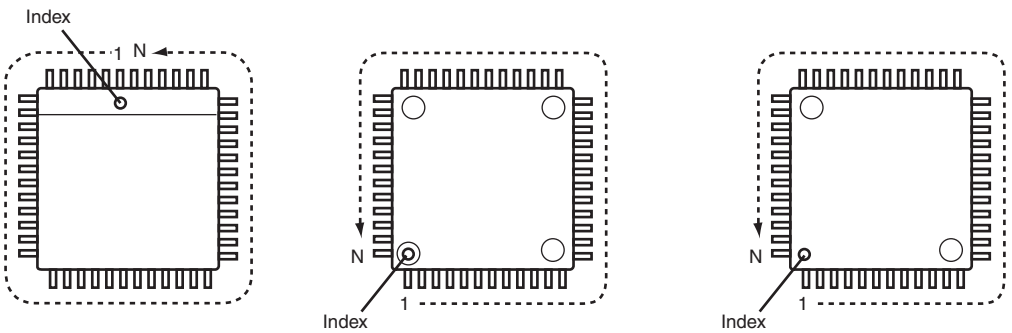


● IC

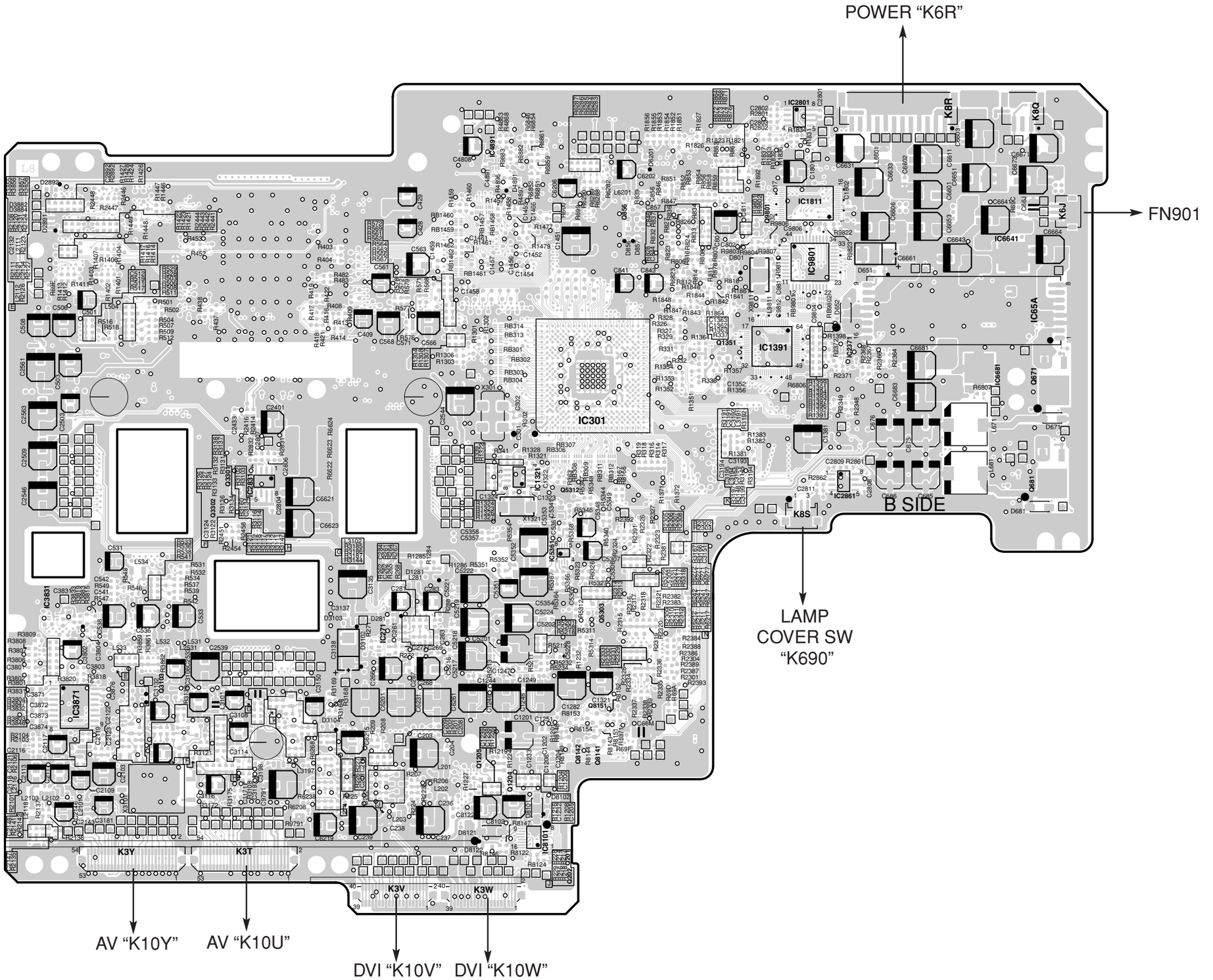




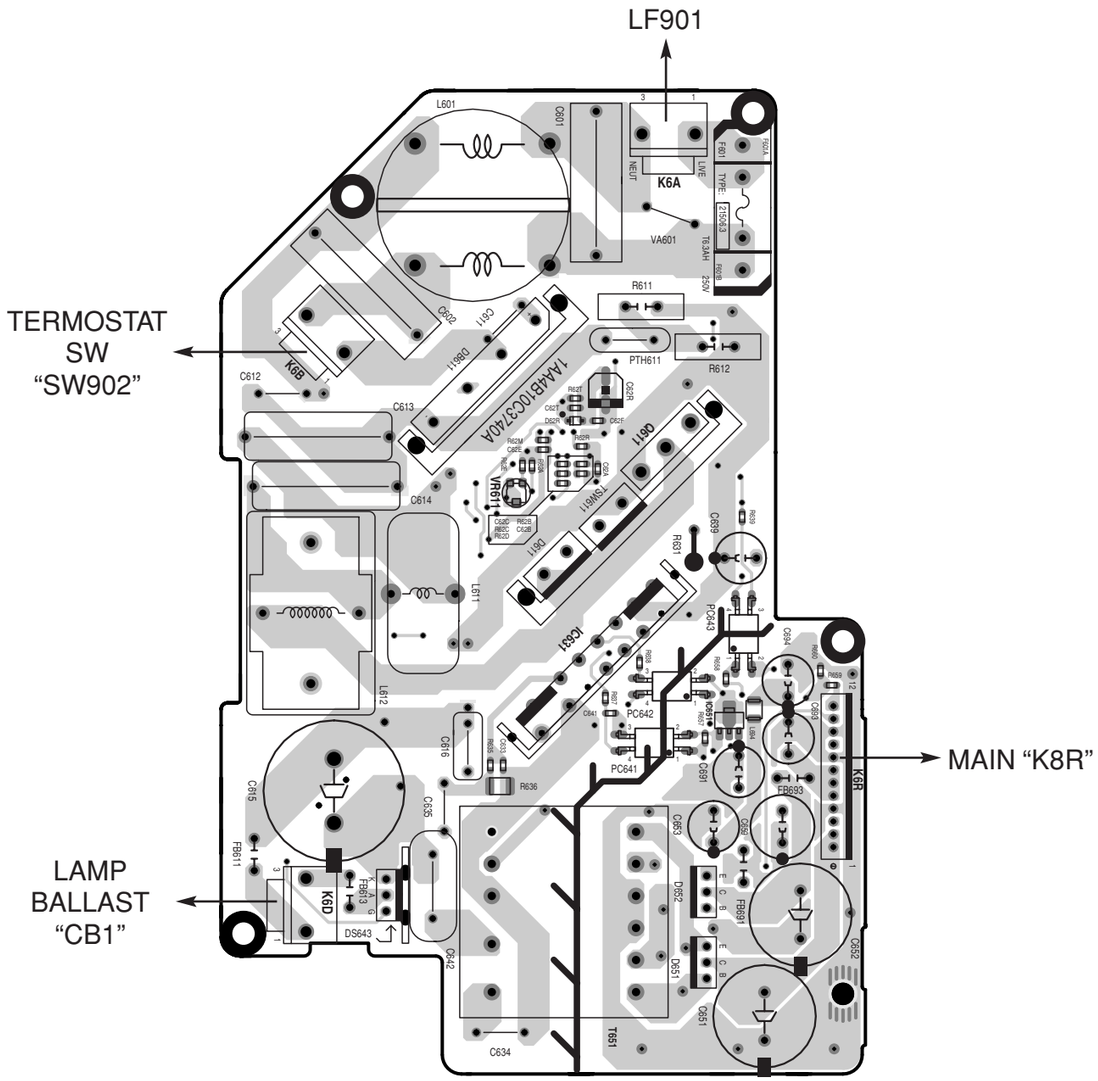




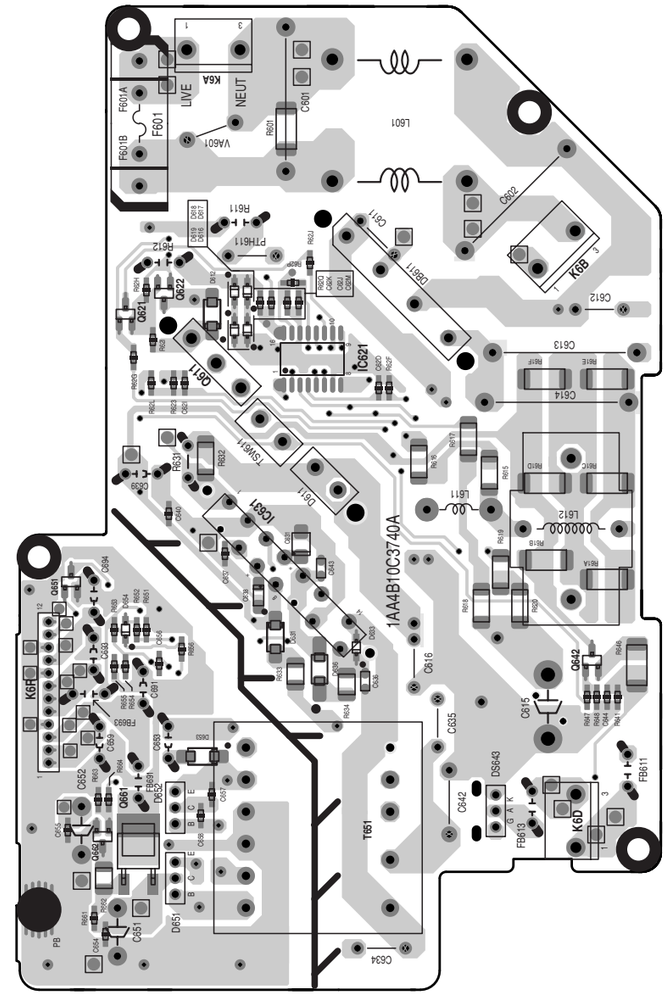
MAIN (SIDE:B)


POWER “K6R”
FN901
LAMP
COVER SW
“K690”
B SIDE
AV “K10Y”
AV “K10U”
DVI “K10V”
DVI “K10W”
IC301
IC1811
IC9801
IC1391
IC6641
IC65A
IC3871
IC3831
IC271
IC2801
IC2861
IC5361
IC3101
IC6681
K8R
K8Q
K6J
K8S
K3Y
K3T
K3V
K3W
Q1351
Q5303
Q3302
Q3831
Q5312
Q6681
Q671
Q681

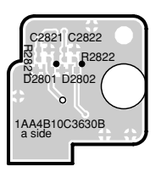
POWER (SIDE:A)



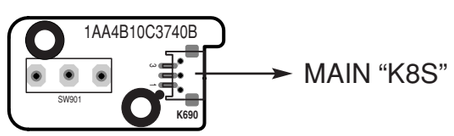
POWER (SIDE:B)



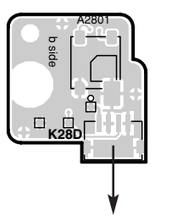
R/C (SIDE:A)



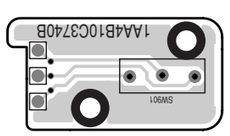
LAMP COVER SW (SIDE:A)



R/C (SIDE:B)

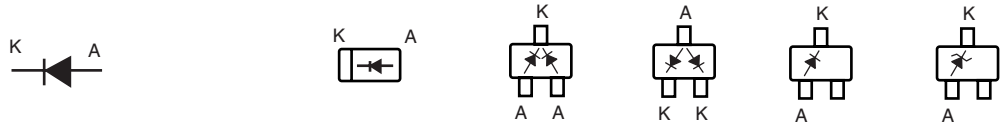


LAMP COVER SW (SIDE:B)



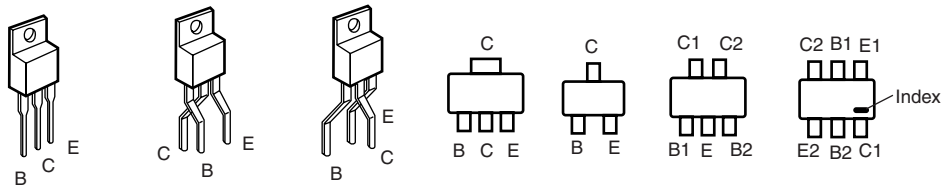
■ Pin description of diode, transistor and IC

● Diode



K: Cathode
A: Anode

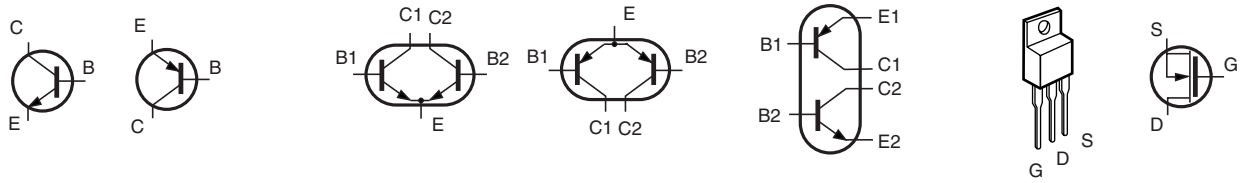
● Transistor/FET



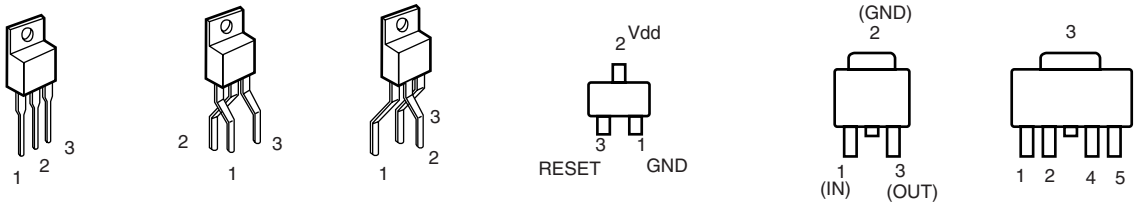
C: Collector
B: Base
E: Emitter

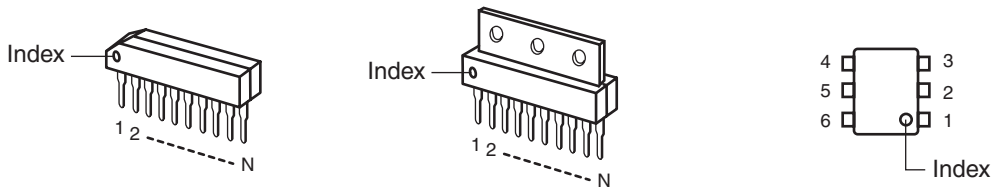
D: Drain
G: Gate
S: Source

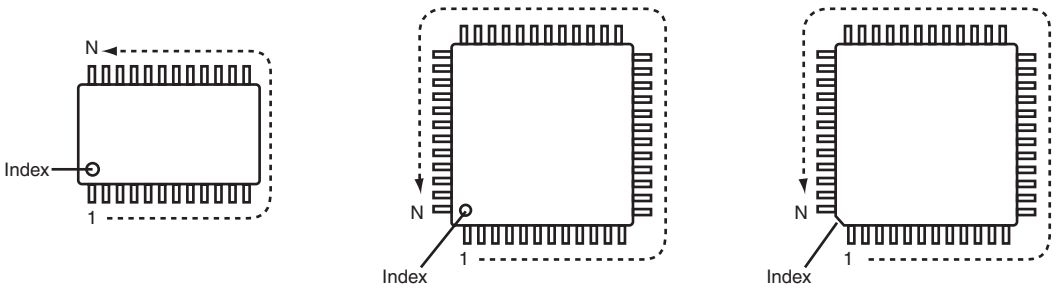
FET

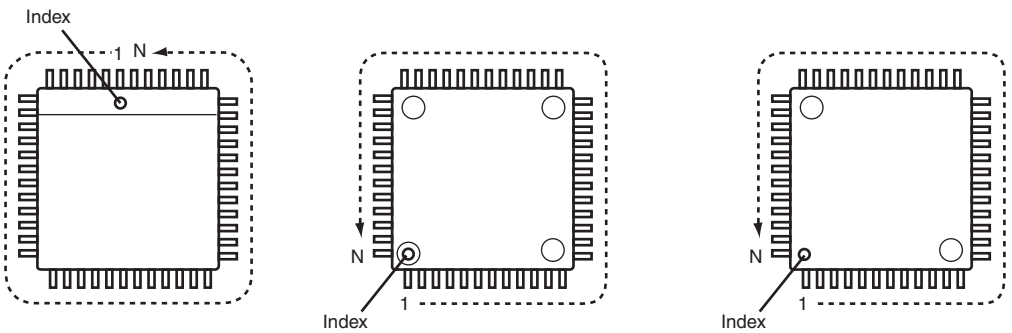


● IC





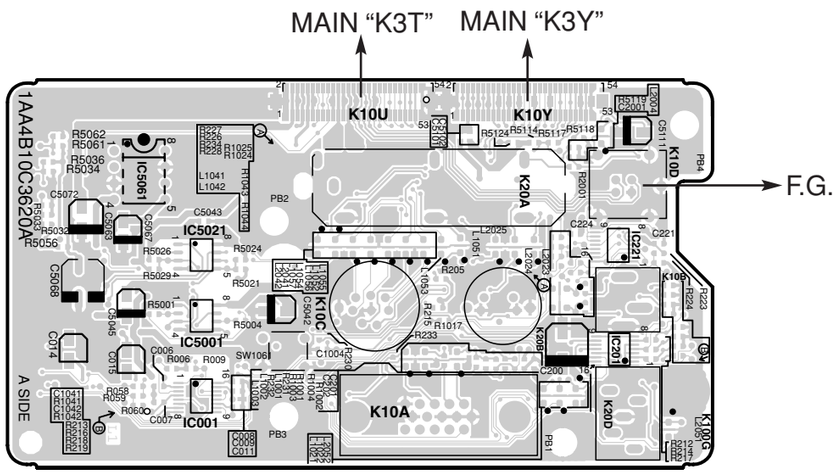




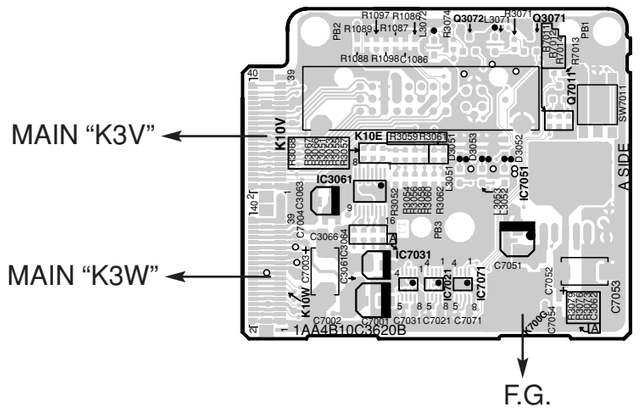
■ Printed Wiring Board Diagrams

> **⚠ CAUTION**
>
> This projector is isolated from AC line by using the internal converter transformer.
> Please pay attention to the following notes in servicing
> 1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
> 2. Do not shorten the circuit between hot and cold sides.
> 3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

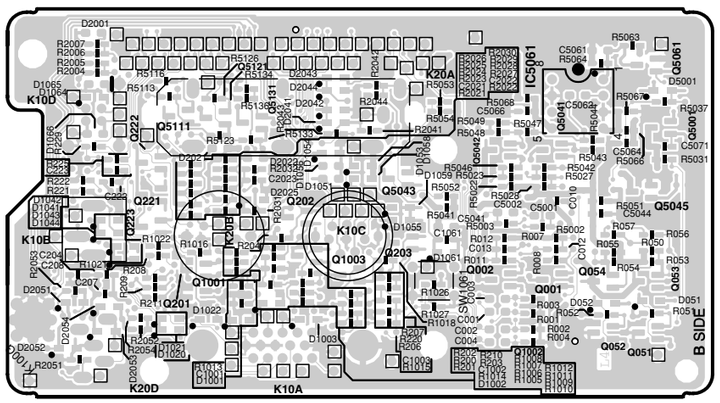
AV (SIDE:A)



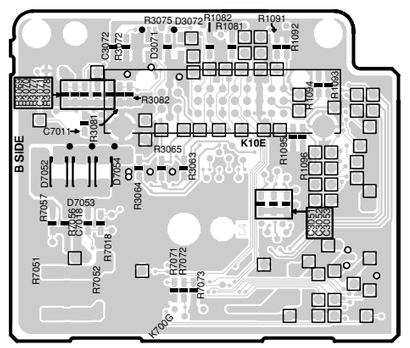
DVI (SIDE:A)



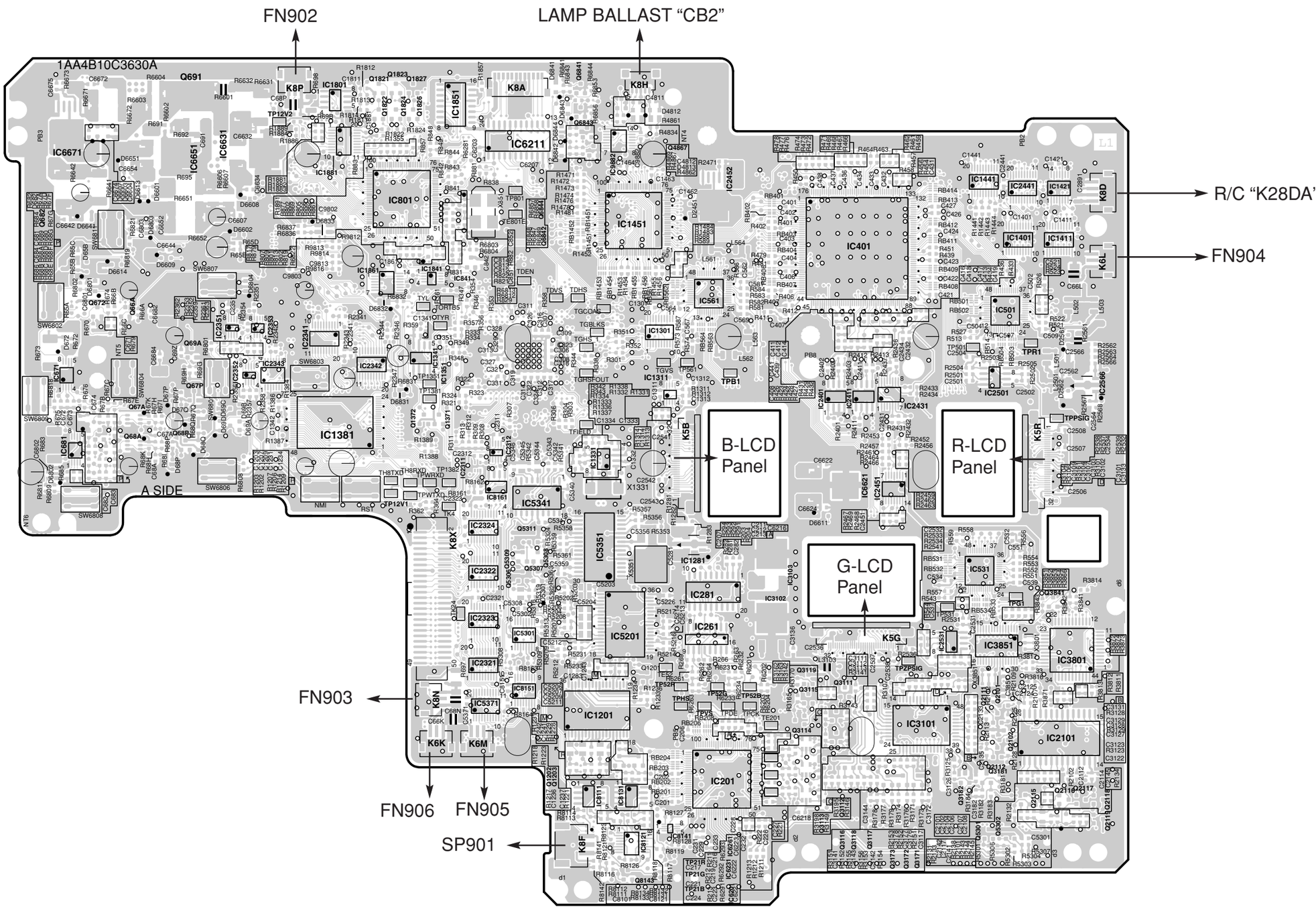
AV (SIDE:B)

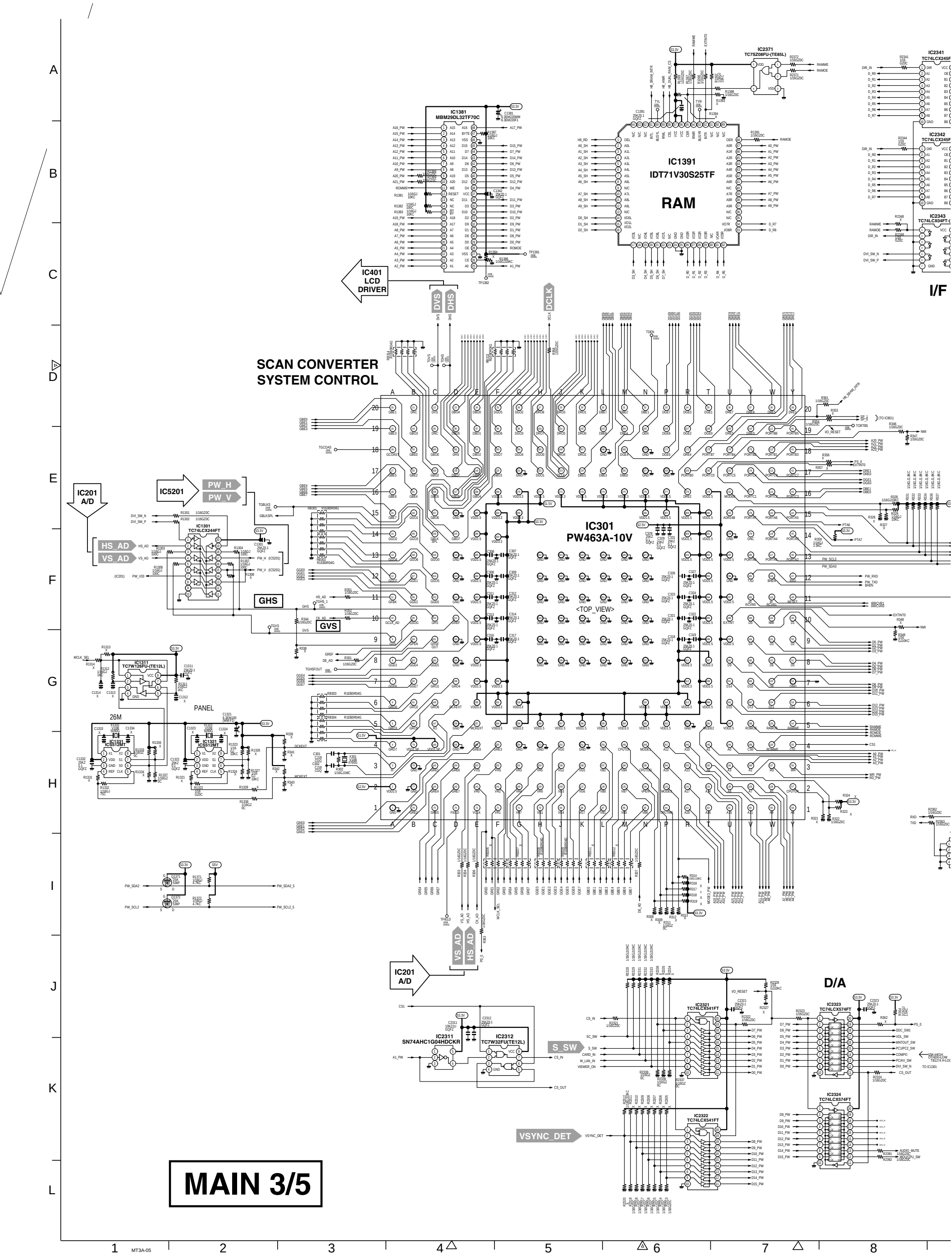


DVI (SIDE:B)

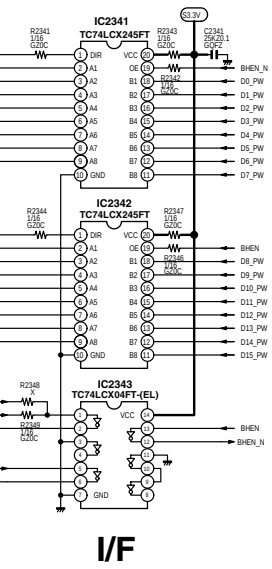


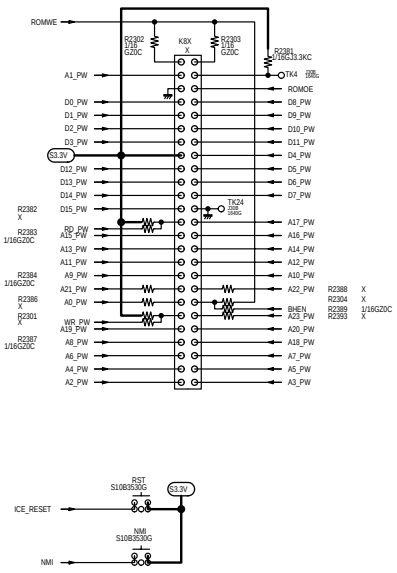
MAIN (SIDE:A)

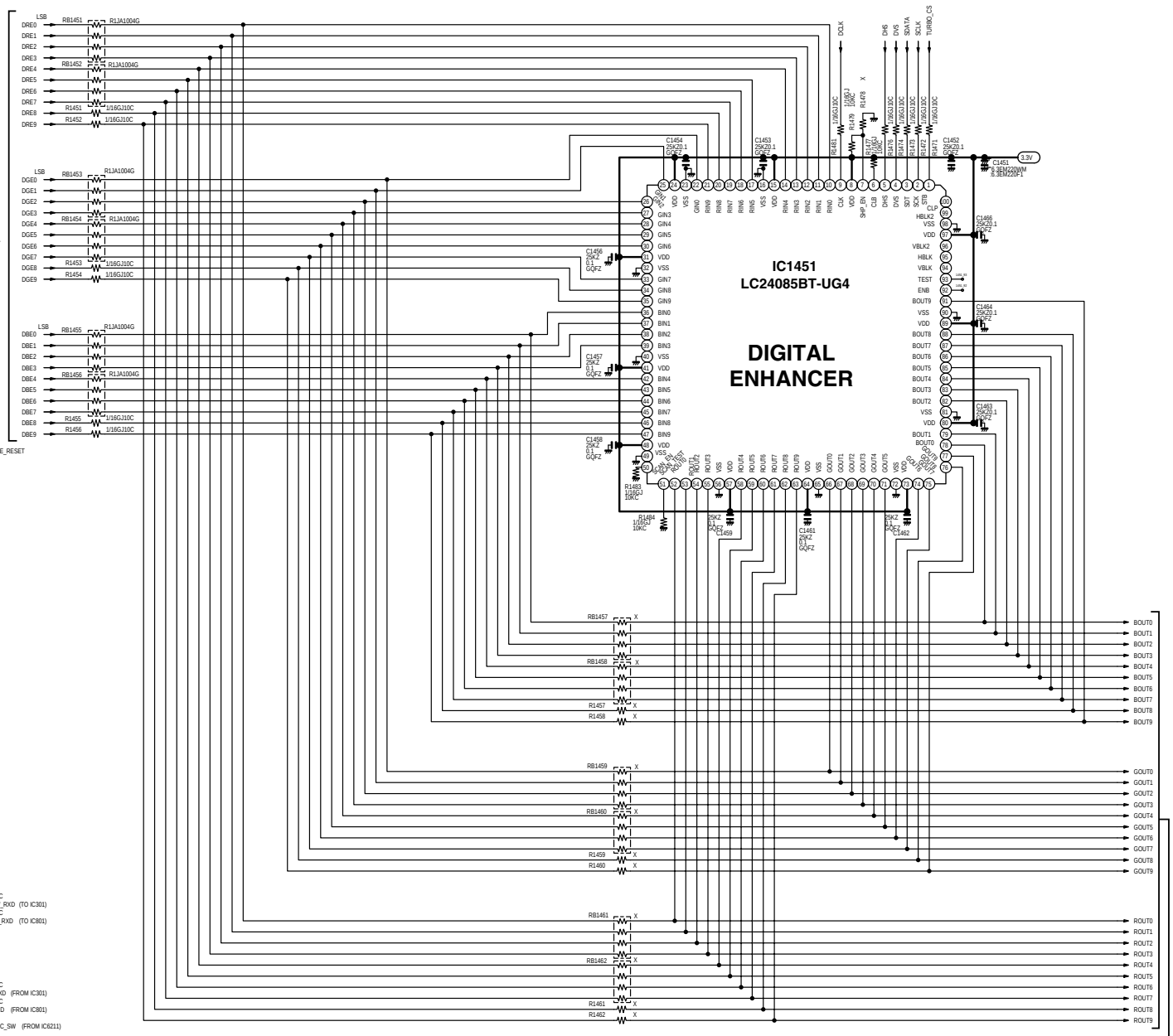

FN902
LAMP BALLAST “CB2”
1AA4B10C3630A
R/C “K28DA”
FN904
FN903
FN906
FN905
SP901
B-LCD Panel
R-LCD Panel
G-LCD Panel
A SIDE
IC1381
IC801
IC1451
IC401
IC1801
IC1851
IC6211
IC6671
IC6651
IC6631
IC1441
IC2441
IC1421
IC1401
IC1411
IC501
IC561
IC1301
IC1311
IC2431
IC2501
IC5341
IC5351
IC5201
IC1201
IC201
IC281
IC261
IC3101
IC3851
IC3801
IC2101
IC531
K8D
K6L
K5B
K5R
K5G
K8X
K8N
K6K
K6M
K8F


IC1381
MBM29DL32TF70C
IC1391
IDT71V30S25TF
RAM
IC2371
TC7SZ08FU-(TE85L)
IC2341
TC74LCX245F
IC2342
TC74LCX245F
IC2343
TC74LCX04FT-(
I/F
IC401
LCD
DRIVER
DVS
DHS
DCLK
SCAN CONVERTER
SYSTEM CONTROL
IC201
A/D
IC5201
PW_H
PW_V
HS_AD
VS_AD
GHS
GVS
IC1301
TC74LCX244FT
IC1311
TC7W126FU-(TE12L)
IC1321
ICS512MT
PANEL
26M
IC301
PW463A-10V
<TOP_VIEW>
IC2311
SN74AHC1G04HDCKR
IC2312
TC7W32FU(TE12L)
S_SW
VSYNC_DET
IC2321
TC74LCX541FT
IC2322
TC74LCX541FT
IC2323
TC74LCX574FT
IC2324
TC74LCX574FT
D/A
MAIN 3/5

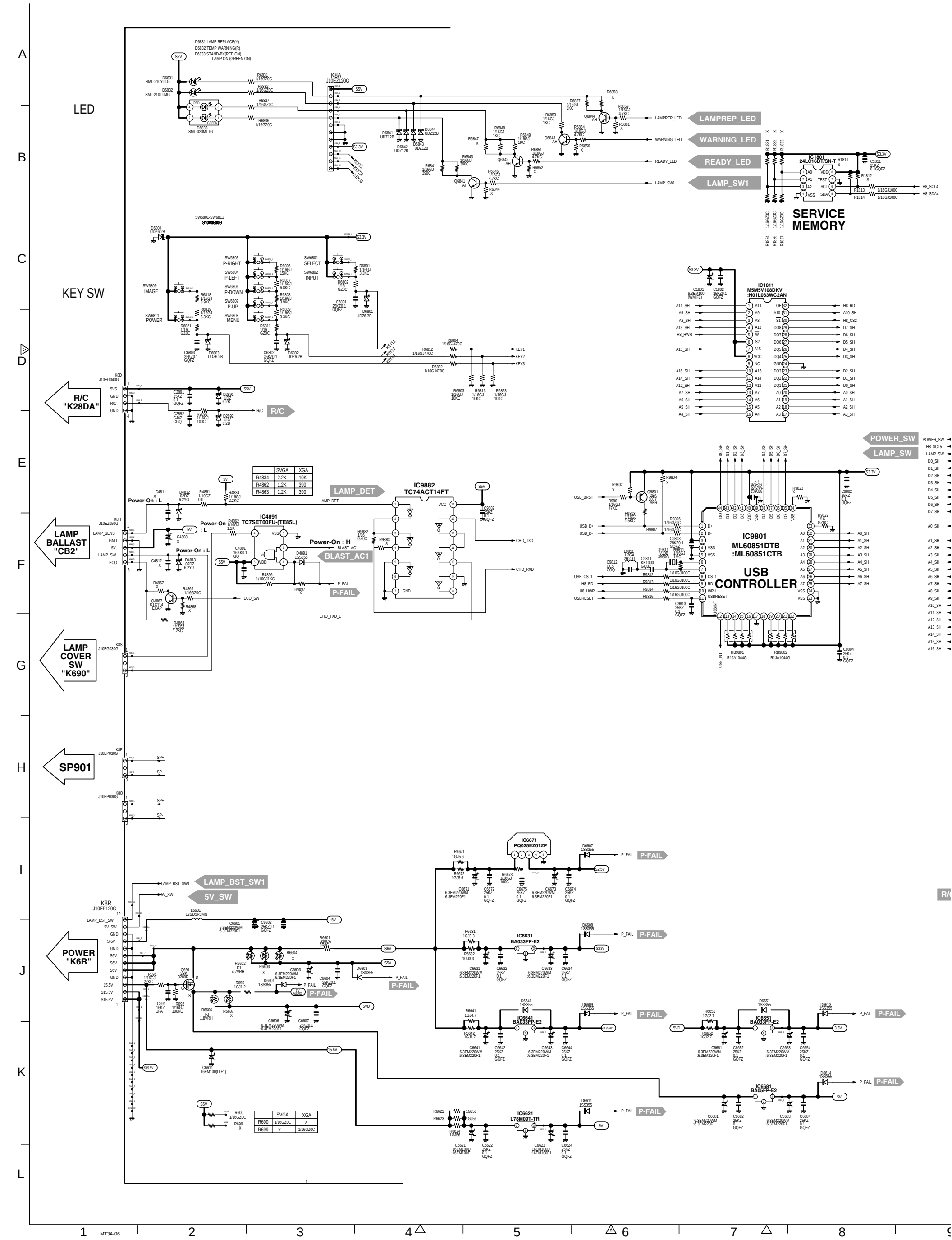
Schematic Diagrams PLC-XU50,XU55 A7 [Right]



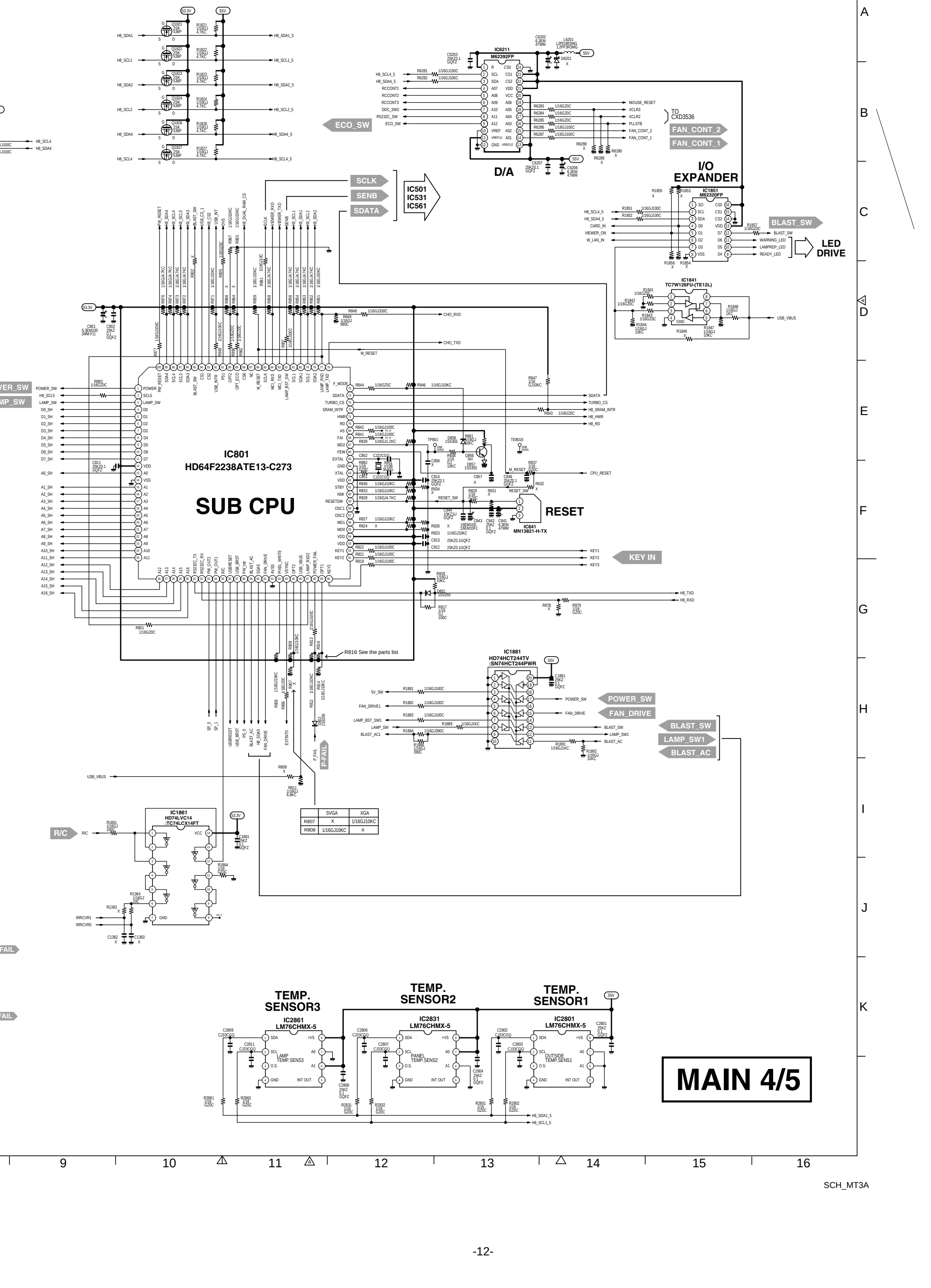




Schematic Diagrams PLC-XU50,XU55 A8 [Left]

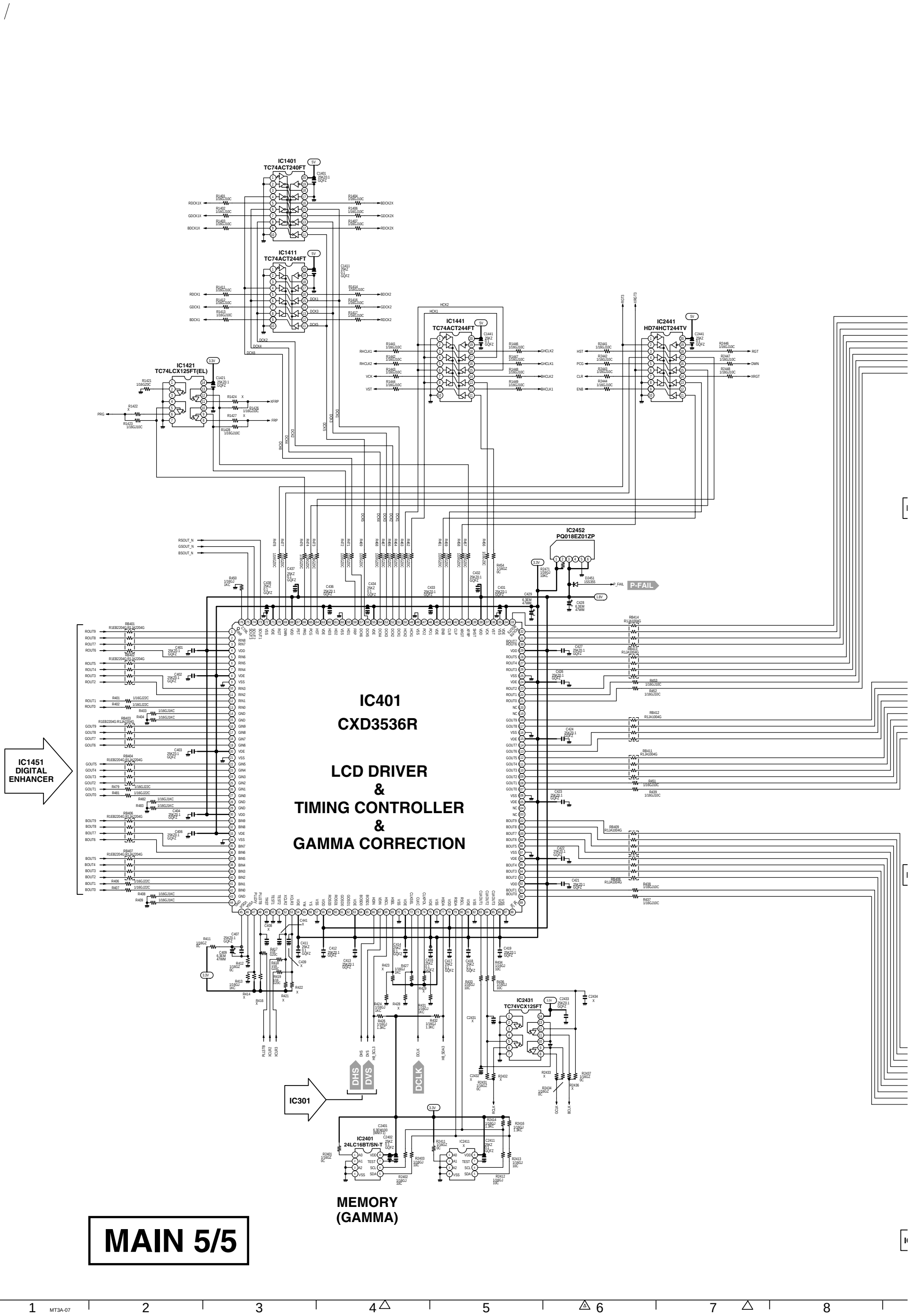


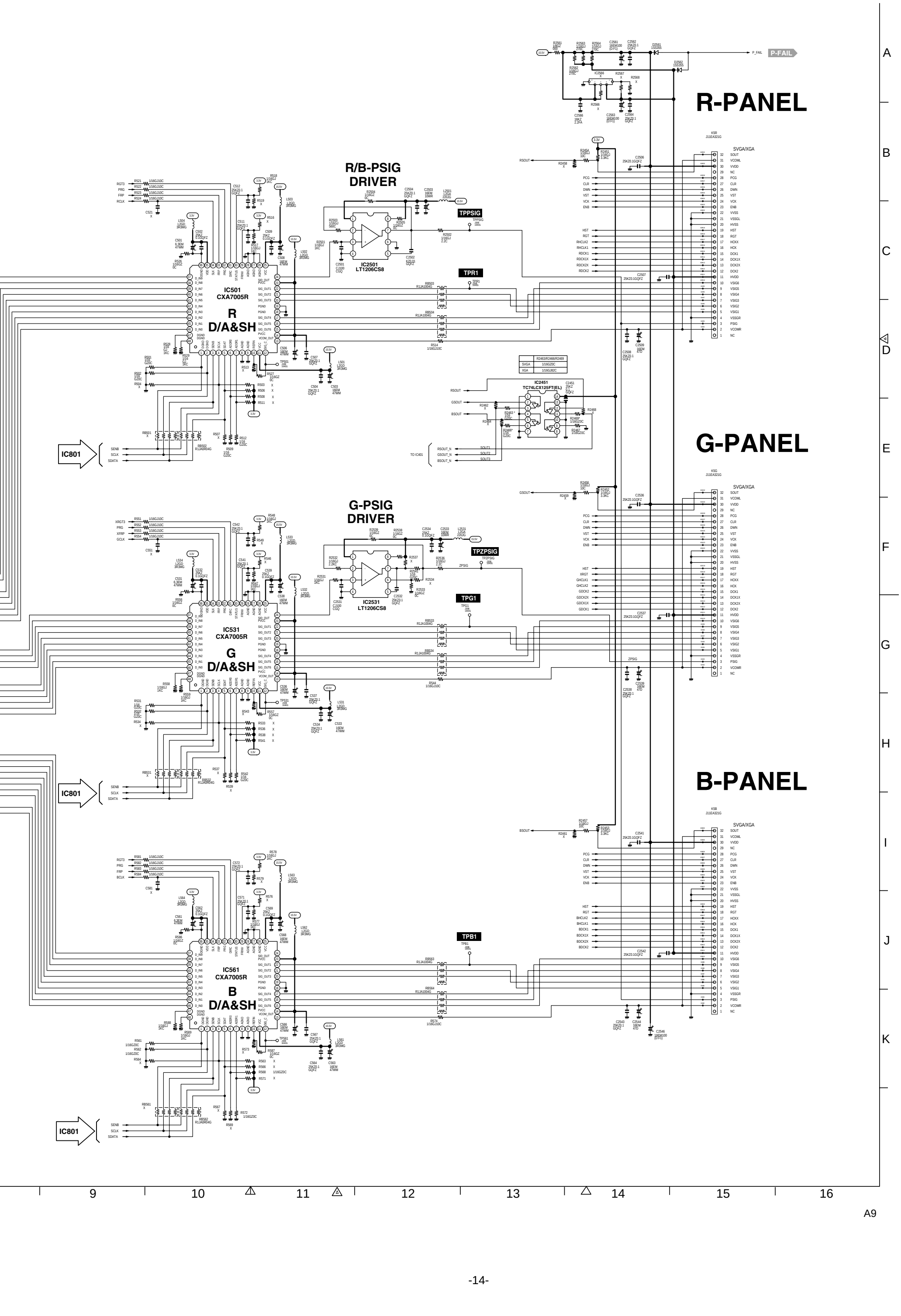
Schematic Diagrams PLC-XU50,XU55 A8 [Right]



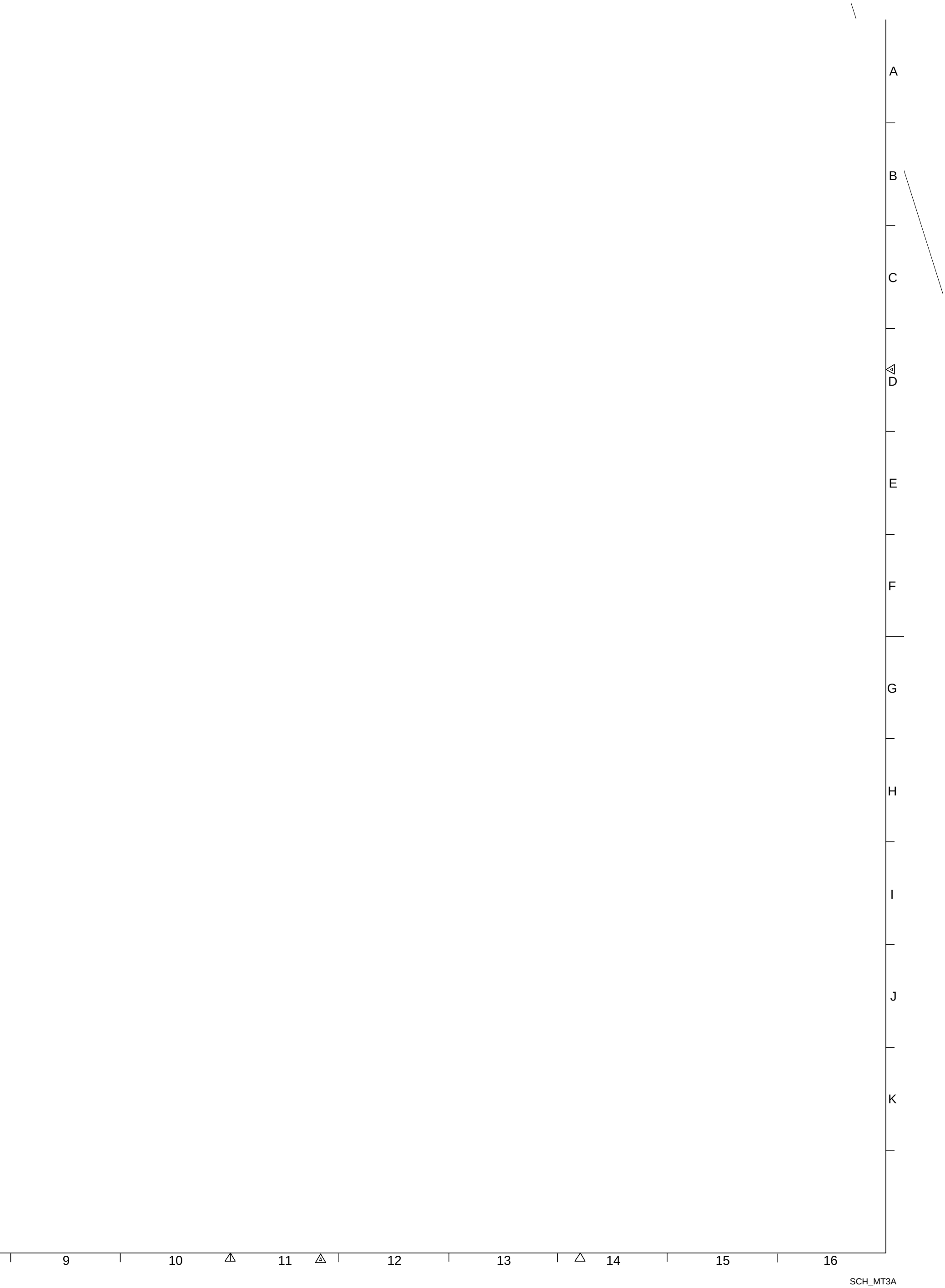
	SVGA	XGA
R807	X	1/16GJ10KC
R808	1/16GJ10KC	X

SCH_MT3A

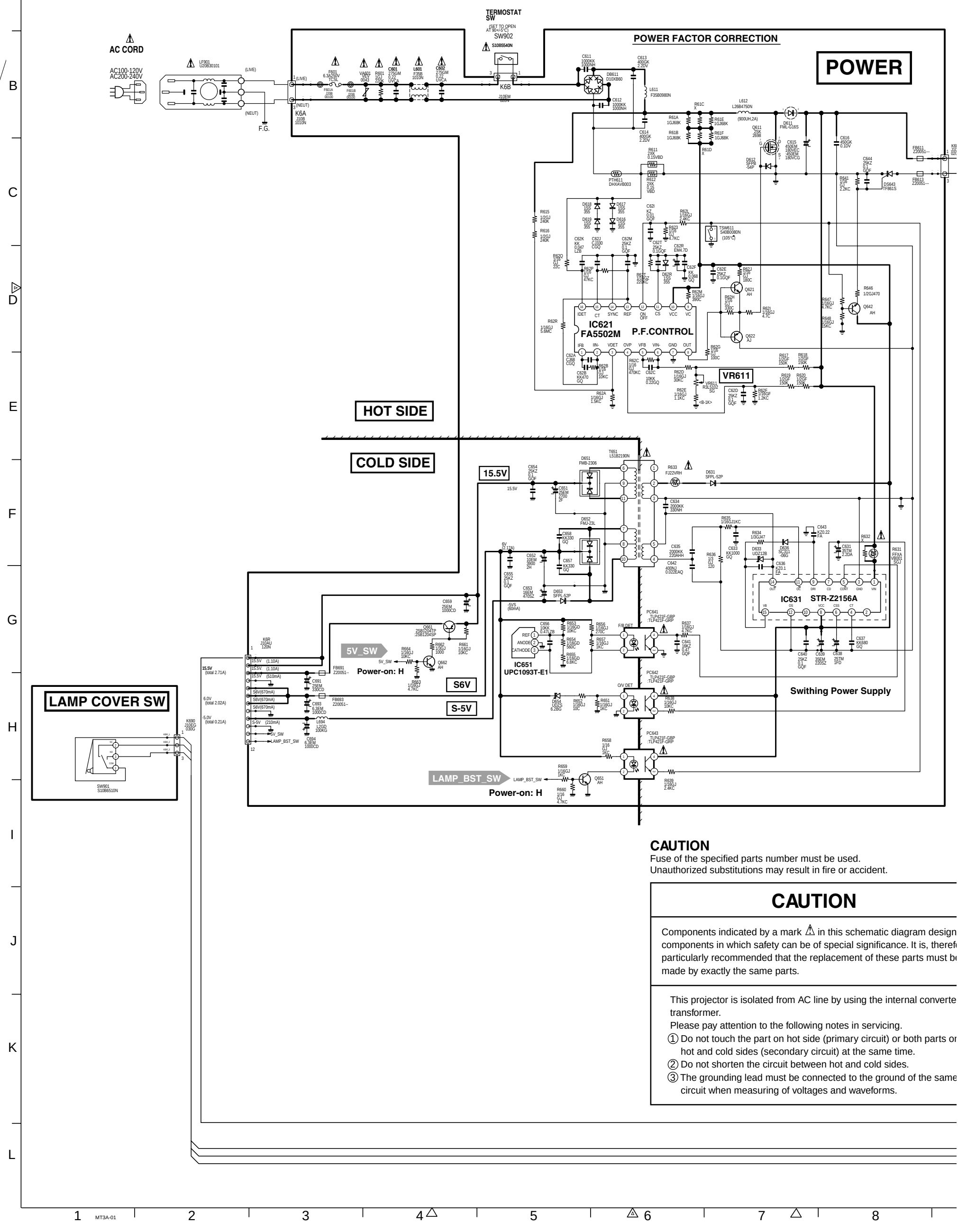

IC1401
TC74ACT240FT
IC1411
TC74ACT244FT
IC1421
TC74LCX125FT(EL)
IC1441
TC74ACT244FT
IC2441
HD74HCT244TV
IC2452
PQ018EZ01ZP
IC401
CXD3536R
LCD DRIVER
&
TIMING CONTROLLER
&
GAMMA CORRECTION
IC1451
DIGITAL
ENHANCER
IC301
DHS
DVS
DCLK
IC2431
TC74VCX125FT
IC2401
24LC16BT/SN-T
MEMORY
(GAMMA)
P-FAIL
MAIN 5/5
MT3A-07
SCH_MT3A


R-PANEL
G-PANEL
B-PANEL
R/B-PSIG DRIVER
G-PSIG DRIVER
IC2501 LT1206CS8
IC2531 LT1206CS8
IC2451 TC74LCX125FT(EL)
IC501 CXA7005R R D/A&SH
IC531 CXA7005R G D/A&SH
IC561 CXA7005R B D/A&SH
IC801
TPPSIG
TPZPSIG
TPG1
TPB1
P-FAIL
SVGA/XGA
SOUT
VCOML
VVDD
NC
PCG
CLR
DWN
VST
VCK
ENB
VVSS
VSSGL
HVSS
HST
RGT
HCKX
HCK
DCK1
DCK1X
DCK2X
DCK2
HVDD
VSIG6
VSIG5
VSIG4
VSIG3
VSIG2
VSIG1
VSSGR
PSIG
VCOMR
NC
SENB
SCLK
SDATA

A10


A
B
C
D
E
F
G
H
I
J
K
9
10
11
12
13
14
15
16
SCH_MT3A

■ Schematic Diagrams



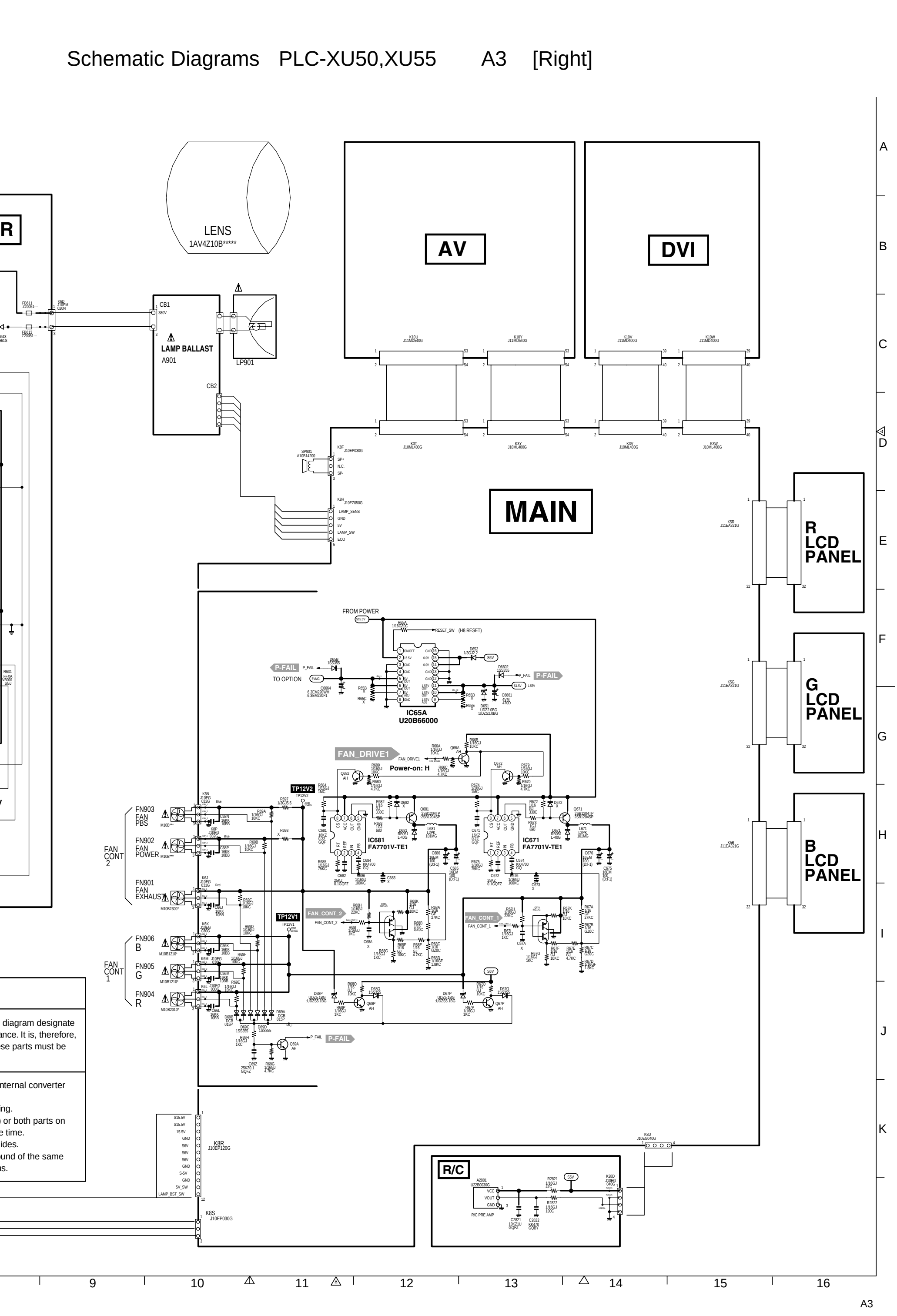
CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION

Components indicated by a mark ⚠ in this schematic diagram design components in which safety can be of special significance. It is, therefo particularly recommended that the replacement of these parts must be made by exactly the same parts.

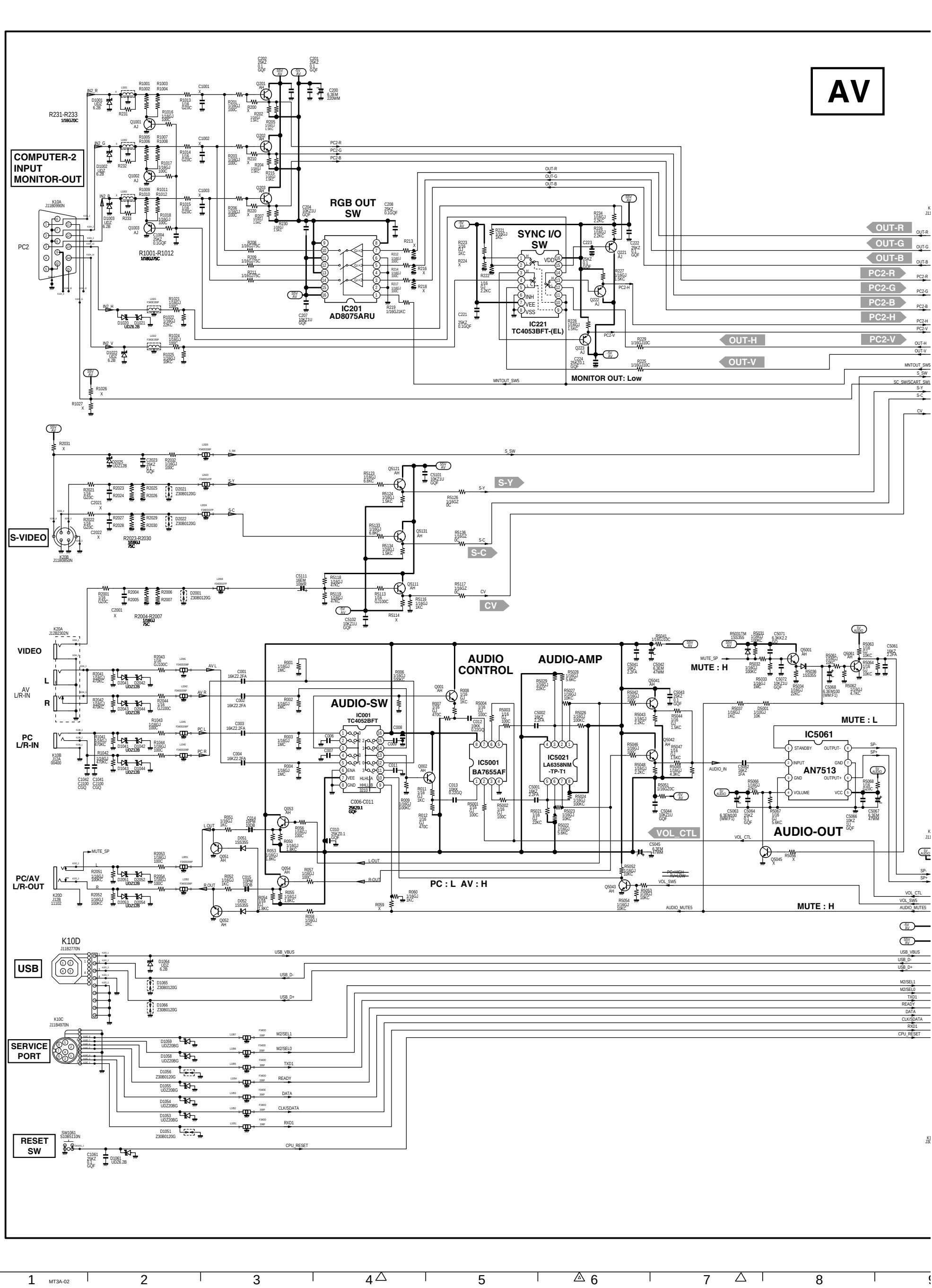
This projector is isolated from AC line by using the internal converte transformer.
Please pay attention to the following notes in servicing.
① Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
② Do not shorten the circuit between hot and cold sides.
③ The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

SCH_MT3A

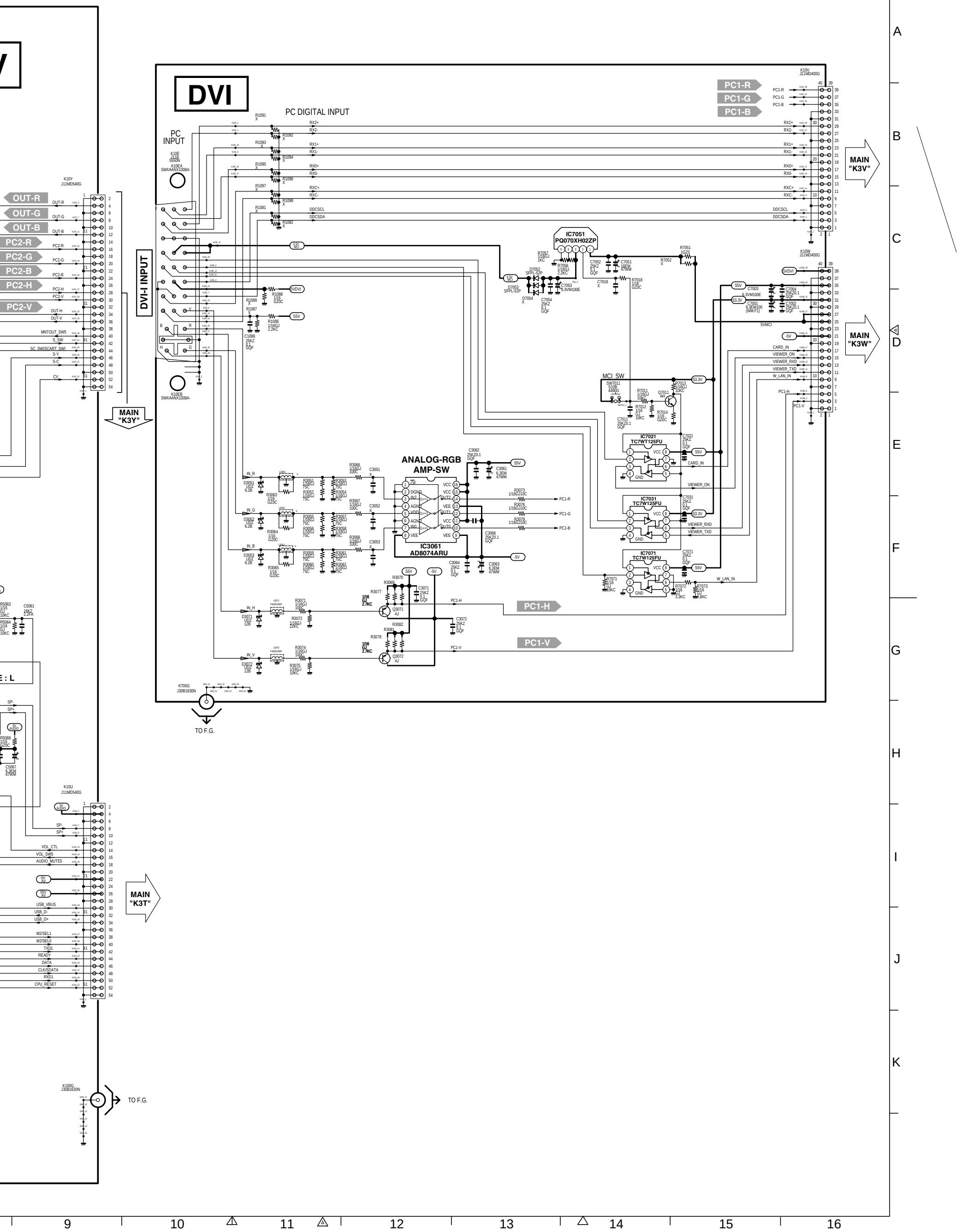

LENS
1AV4Z10B*****
AV
DVI
MAIN
R
LCD
PANEL
G
LCD
PANEL
B
LCD
PANEL
LAMP BALLAST
A901
LP901
CB1
CB2
IC65A
U20B66000
IC681
FA7701V-TE1
IC671
FA7701V-TE1
FAN_DRIVE1
Power-on: H
FAN_CONT_2
FAN_CONT_1
P-FAIL
TO OPTION
FROM POWER
RESET_SW (H8 RESET)
FN903 FAN PBS
FN902 FAN POWER
FN901 FAN EXHAUST
FN906 B
FN905 G
FN904 R
FAN CONT 2
FAN CONT 1
R/C
R/C PRE AMP
K8R J10EP120G
K8S J10EP030G
K8D J10EG040G

-2-

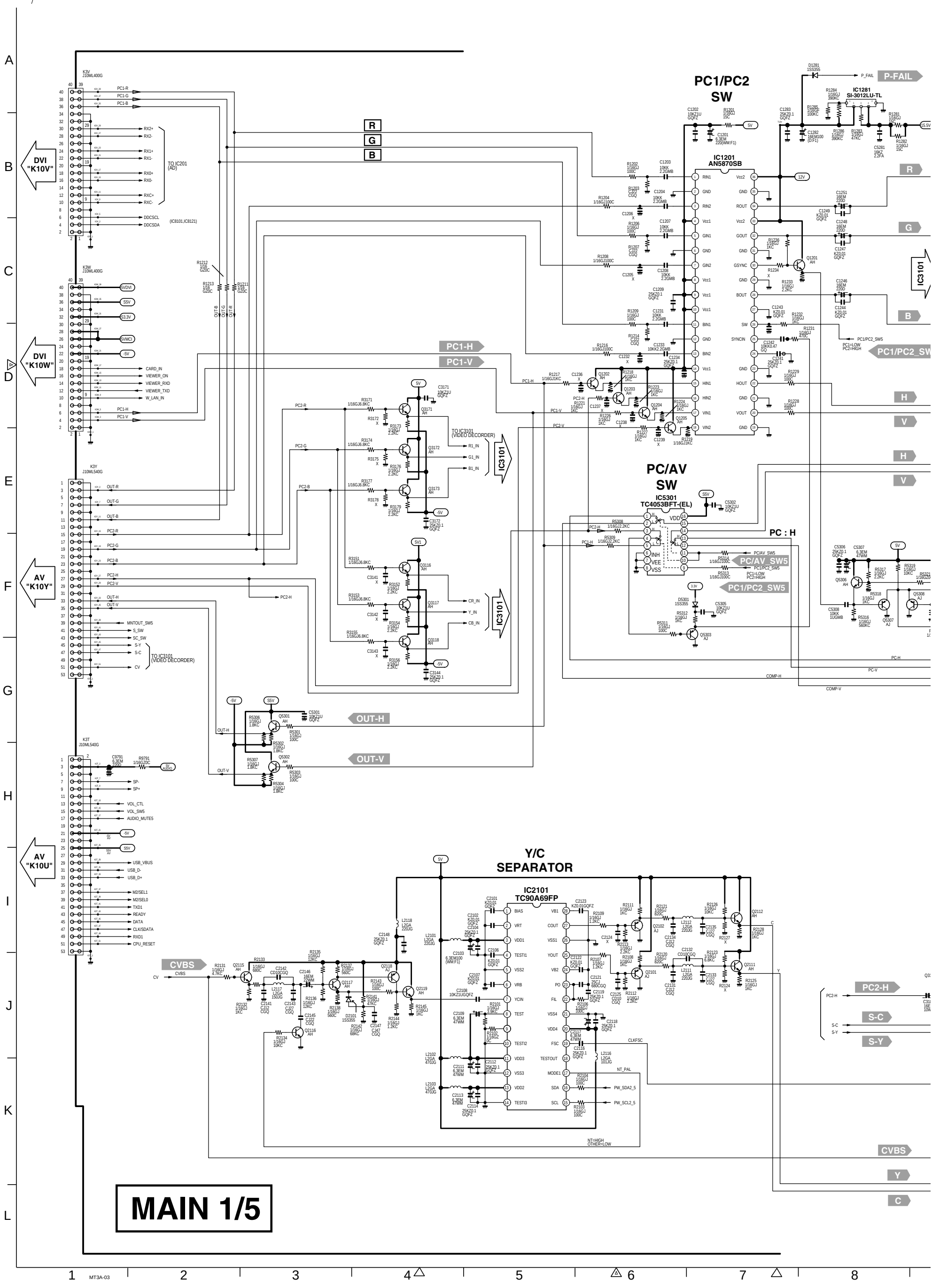
Schematic Diagrams PLC-XU50,XU55 A4 [Left]



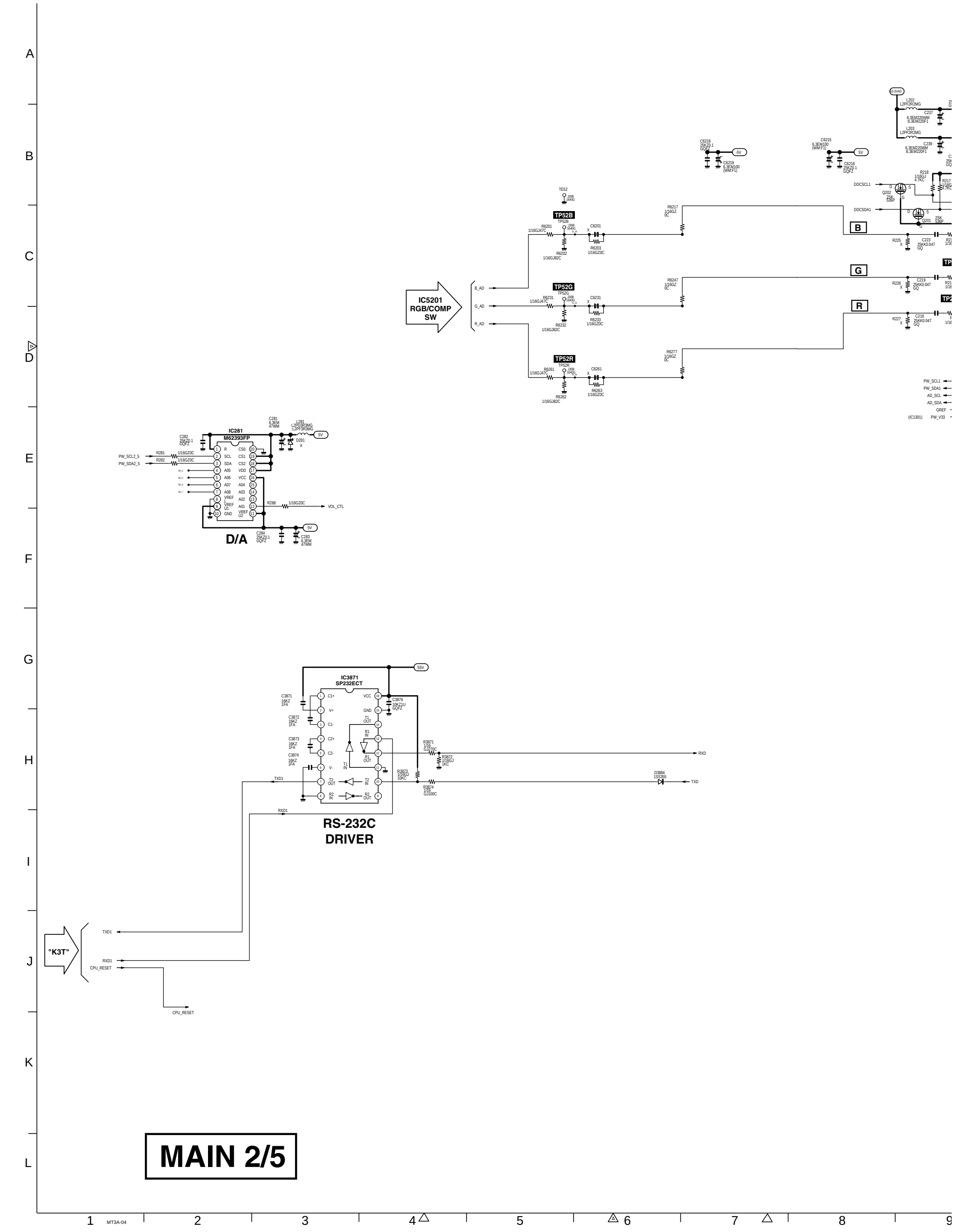
Schematic Diagrams PLC-XU50,XU55 A4 [Right]



Schematic Diagrams PLC-XU50,XU55 A5 [Left]



Schematic Diagrams PLC-XU50,XU55 A5 [Right]


IC5201
RGB/COMP
SW
B_AD
G_AD
R_AD
TP52B
TP52G
TP52R
B
G
R
IC281
M62393FP
D/A
PW_SCL2_5
PW_SDA2_5
VOL_CTL
IC3871
SP232ECT
RS-232C
DRIVER
RXD
TXD
TXD1
RXD1
CPU_RESET
"K3T"
PW_SCL1
PW_SDA1
AD_SCL
AD_SDA
GREF
DDCSCL1
DDCSDA1
MAIN 2/5

Schematic Diagrams PLC-XU50,XU55 A6 [Right]